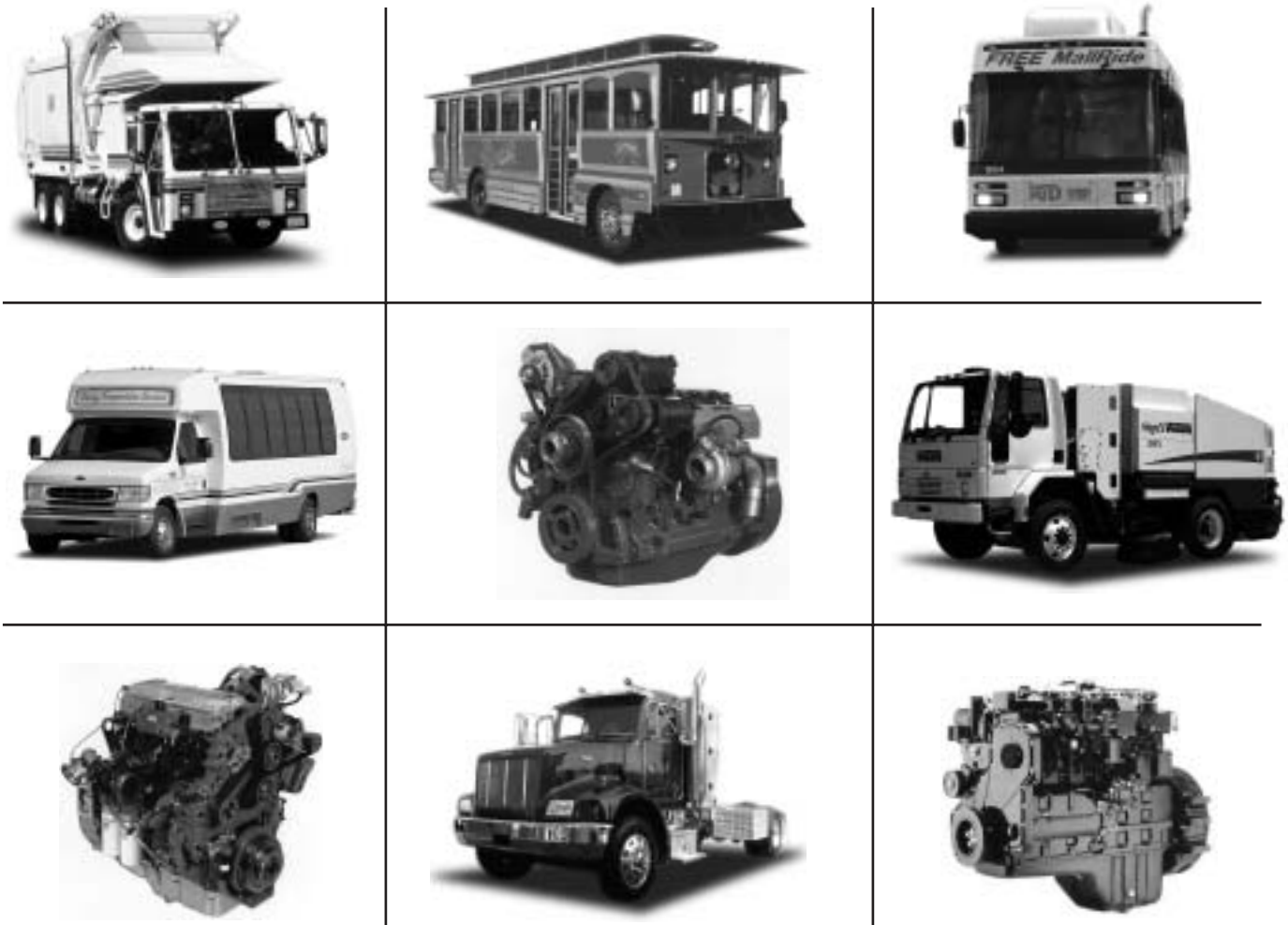


U.S. Department of Energy
Office of Transportation Technologies

Heavy Vehicle and Engine Resource Guide



Download an electronic copy of this document from

<http://www.afdc.doe.gov/pdfs/hvrg.pdf>

For more information about Heavy Duty Vehicles
visit the Alternative Fuel Vehicle Fleet Buyer's Guide

<http://www.fleets.doe.gov/>

or call the National Alternative Fuels Hotline

Phone: 800-423-1DOE

Local/International: 703-934-3069

Fax: 703-934-3183

E-mail: hotline@afdc.nrel.gov

For additional information contact the National Alternative Fuels Hotline.

Updated December, 2001



About This Guide

Welcome to the U.S. Dept. of Energy's *Heavy Vehicle & Engine Resource Guide*, a comprehensive product catalog of medium- and heavy-duty engines and vehicles with alternative fuel and advanced powertrain options.

The information included in this guide was collected by the National Renewable Energy Laboratory to provide fleet operators, policymakers, alternative fuel industry participants, and other interested parties with an overview of heavy vehicle and engine products currently available in the United States.

Beside product information, the guide also includes:

- contact information for vehicle and engine manufacturers as well as organizations and government agencies involved in the alternative fuel and advanced vehicle and engine market,
- a glossary of commonly used alternative fuel and advanced vehicle and engine terms and acronyms and
- a chart with applicable vehicle and engine emission certification specifications.

Product information in the guide is divided into three categories:

Alternative Fuel Medium & Heavy Engines, Natural Gas & Propane Medium & Heavy Vehicles, and Hybrid-Electric, Battery-Electric & Fuel-Cell Heavy Vehicles.

Product information was furnished by original equipment manufacturers. Respondents were asked to provide accurate, up-to-date information about all their heavy vehicle and engine products. All information in the guide is subject to change. Please visit manufacturer Web sites for the most up-to-date

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product information.

Best efforts were made to collect information from all manufacturers offering commercially available medium and heavy vehicles and engines with alternative fuel and advanced technology options, and to collect information on all their alternative fuel products. However, some manufacturers and products may not appear in the guide.

Our thanks go out to all manufacturers whose products appear in the guide for their cooperation. We hope you find the information useful and refer to it often!

A Glossary of Abbreviations

APU	auxiliary power unit	L	liter
bhp	brake horsepower	lb. or lbs.	pounds
CARB	California Air Resources Board	LEV	low-emission vehicle
CFF	clean fuel fleet	LNG	liquefied natural gas
CI	cubic inch or compression ignition	LPG	liquefied petroleum gas
CFFP	Clean Fuel Fleet Program	MD	medium-duty
CNG	compressed natural gas	mph	miles per hour
CO	carbon monoxide	MSRP	manufacturer's suggested retail price
DGE	diesel gallon equivalent	MY	model year
EPA	Environmental Protection Agency	N/A or NA	not available or not applicable
EV	electric vehicle	NMHC	nonmethane hydrocarbons
ft.-lb. or lb.-ft.	foot-pound (pound-foot)	NO_x	oxides of nitrogen
gal	gallons	OEM	original equipment manufacturer
g/bhp-hr	grams per brake-horsepower hour	PM	particulate matter
GVW	gross vehicle weight	rpm	revolutions per minute
HCHO	formaldehyde	scf	standard cubic feet
HD	heavy-duty	SI	spark ignition
HEV	hybrid-electric vehicle	SULEV	super ultra low-emission vehicle
ILEV	inherently low-emission vehicle	THC	total hydrocarbons
in	inches	ULEV	ultra low-emission vehicle
in³	cubic inches	v	volts
kW-hr	kilowatts hours	ZEV	zero-emission vehicle

ENGINE / VEHICLE EMISSION STANDARDS FOR THE UNITED STATES*

Regulating agency	Effective MY	Applicable vehicle/engine classification	NMHC (g/bhp-hr)	CO (g/bhp-hr)	PM (g/bhp-hr)	NOx (g/bhp-hr)
CARB LEV	1992-2001	Medium-duty vehicles/engines, 8,501 to 14,000 lb. GVW ^J	0.33/0.43	8.1/10.3	0.12/0.12	1.0/1.5
CARB ULEV	1992-2003	Medium-duty vehicles/engines, 8,501 to 14,000 lb. GVW ^J	0.197/0.257	8.1/10.3	0.06/0.06	1.0/1.5
CARB SULEV	1992 and later	Medium-duty vehicles/engines, 8,501 to 14,000 lb. GVW ^J	0.1/0.13	4.1/5.2	0.06/0.06	0.5/0.7
CARB LEV ^E	1992-2001	Engines for incomplete MD vehicles, 8,501-14,000 GVW	3.5 NMHC + NOx	14.4	0.1	3.5 NMHC + NOx
CARB ULEV ^E	1992-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
CARB SULEV ^E	1992 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.0 NMHC + NOx	7.2	0.05	2.0 NMHC + NOx
CARB	1994 and later	Heavy-duty diesel engines/vehicles (except urban transit buses)	1.2 ^C	15.5	0.1 ^F	5
CARB	1996 and later	Heavy-duty diesel engines/vehicles (except urban transit buses) ^G	1.2-1.3	15.5	0.1	5
U.S. EPA	1998 and later	Heavy-duty diesel eng./vehic. over 8,500 lb. GVW (comp. ignit./urban buses)	2.5 NMHC + NOx	15.5	0.1/0.05 ^A	4
U.S. EPA	1998 and later	HD diesel engines/vehicles 8,501-14,000 lb. GVW (spark-ignition/Otto cycle)	0.9	14.4	NA	4.0 ^B
U.S. EPA	1998 and later	HD diesel engines/vehicles over 14,000 lb. GVW (spark-ignition/Otto cycle)	1.7	37.1	NA	4.0 ^B
U.S. EPA CFFP LEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	3.8 NMHC + NOx (Fed. fuel) ^M	15.5	0.1	3.8 NMHC + NOx
U.S. EPA CFFP ILEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	2.5 NMHC + NOx ^K	14.4	0.1	2.5 NMHC + NOx
U.S. EPA CFFP ULEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	2.5 NMHC + NOx ^L	7.2	0.05	2.5 NMHC + NOx
U.S. EPA CFFP ZEV	1998 and later	Heavy-duty SI and CI engines over 8,500 lb.	0	0	0	0
CARB	1998 and later	Heavy-duty engines/vehicles (except urban buses)	1.2	15.5	0.1	4
CARB	2000 and later	Urban transit buses (fleets choosing diesel path)	1.2	15.5	0.05	4
CARB	2000 and later	Urban transit buses (fleets choosing alt. fuels path)	1.2	15.5	0.05	2.5 (optional)
CARB LEV ^E	2002-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	3.0 NMHC + NOx	14.4	0.1	3.0 NMHC + NOx
CARB	2002 and later	Urban transit buses (fleets choosing diesel path)	2.5 NOx + NMHC 4.8 NOx fleet ave.	15.5	0.05	2.5 NOx + NMHC 4.8 NOx fleet ave.
CARB	2002 and later	Urban transit buses (fleets choosing alternative fuels path)	1.8 NOx + NMHC (opt.) 4.8 NOx fleet ave.	15.5	0.03	1.8 NOx + NMHC (opt.) 4.8 NOx fleet ave.
CARB	2002 and later ^D	Heavy-duty engines/vehicles over 14,000 lb. GVW (except urban buses)	1.8 to 0.3 NMHC + NOx	15.5	0.03 to 0.01	1.8 to 0.3 NMHC + NOx
CARB	2004 and later	Heavy-duty engines/vehicles (except urban buses) ^{H,I}	2.4-2.5 NOx + NMHC	15.5	0.1	2.4-2.5 NOx + NMHC
CARB	2004 and later	Urban transit buses (fleets choosing diesel path)	NA	15.5	0.01	0.5
CARB ULEV Opt. A ^E	2004 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
CARB ULEV Opt. B ^E	2004 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.4 NMHC + NOx	14.4	0.1	2.4 NMHC + NOx
CARB	2004-2006	New diesel-fueled, dual-fuel, or bifuel HD engines in urban transit buses	0.05	5.0/7.0	0.01	0.5
U.S. EPA CFF	2004 and later	Heavy-duty diesel engines for vehicles over 8,500 lb.	2.4 HC + NOx	15.5	0.1/0.05 ^A	2.4 HC + NOx
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 8,501-10,000 lb.	0.28 g/mile	NA	NA	0.9 g/mile
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 10,001-14,000 lb.	0.33 g/mile	NA	NA	1.0 g/mile
CARB	2007 and later	Urban transit buses (fleets choosing diesel path)	NA	NA	0.01	0.2
CARB	2007 and later	Urban transit buses (fleets choosing alt. fuels path)	NA	NA	0.01	0.2
U.S. EPA	2007 and later	Heavy-duty diesel engines/vehicles	0.14	15.5	0.01	0.2
U.S. EPA	2008 and later	Heavy-duty Otto-cycle engines/vehicles	0.14	14.4	0.01	0.20
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 8,501-10,000 lb.	0.195 g/mile	7.3 g/mile	0.02 g/mile	0.2 g/mile
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 10,001-14,000 lb.	0.23 g/mile	8.1 g/mile	0.02 g/mile	0.4 g/mile

*For more detailed information, visit the EPA Office of Transportation and Air Quality Web site at www.epa.gov/otaq or the CARB Web site at www.arb.ca.gov

A. Standard for urban buses, MY 1996 and later

B. NOx standard for all natural gas-fueled engines is 5.0

C. NMHC standard applies to petroleum-, natural gas, and propane-powered engines

D. Optional standards effective 10/2002

E. Optional standards

F. PM standard for urban transit buses is 0.07 g/bhp-hr under transient operating conditions

G. For urban transit buses, NOx standard is 4.0 g/bhp-hr and PM standard is 0.05-0.07 g/bhp-hr

H. Standards apply to engines fueled with petroleum-based fuel, natural gas, or propane

I. Vehicles (other than urban transit buses) over 14,000 lb. GVW may also be certified to optional standards of 0.3-1.8 g/bhp-hr NOx and 0.01-0.03 g/bhp-hr PM

J. First standard listed for each pollutant is for engines/vehicles 8,501 to 10,000 lb. GVW; second standard listed is for engines/vehicles 10,001 to 14,000 lb. GVW

K. HCHO standard of 0.5 g/bhp-hr

L. HCHO standard of 0.25 g/bhp-hr

M. Standard for CARB fuel is 3.5 g/bhp-hr NMHC + NOx

Information Sources for Heavy Vehicles & Engines

Trade associations, R&D groups, government agencies, advocacy groups, etc.

Alternative Fuels Data Center & Hotline

U.S. Depart. of Energy

Phone: 800-423-1363/703-934-3069

Web site: www.afdc.doe.gov

American Bioenergy Association

314 Massachusetts Ave. NE, Suite 200,

Washington, DC 20002

Megan Smith

Phone: 202-467-6540

Fax: 202-467-6541

Web site: www.biomass.org

American Bus Association

1100 New York Ave. NW, Suite 1050,

Washington, DC 20005-3934

William Mahoney

Phone: 202-842-1645

Fax: 202-842-0850

Web site: www.buses.org

American Public Transportation Association

1666 K St. NW,

Washington, DC 20006

Rose Gandee

Phone: 202-496-4889

Fax: 202-496-4324

Web site: www.apta.com

American Trucking Associations

2200 Mill Rd.,

Alexandria, VA 22314-4677

Susan Coughlin

Phone: 703-838-1700

Fax: 703-838-0291

Web site: www.truckline.com

California Air Resources Board (CARB), Mobile Source Operations Division

PO Box 8001,

El Monte, CA 91734-2301

Allen Lyons

Phone: 626-450-6150

Web site: www.arb.ca.gov

California Electric Transportation Coalition

925 L St., Suite 1490,

Sacramento, CA 95814

David Modisette, Executive Director

Phone: 916-552-7077

Fax: 916-552-7075

California Energy Commission

1516 9th St., MS-41,

Sacramento, CA 95814-2950

Transportation Technology/Fuels Dept.

Phone: 916-654-4634

Fax: 916-653-4470

Web site: www.energy.ca.gov

CALSTART/WESTART Advanced Vehicle Consortium

3360 E. Foothill Blvd.,

Pasadena, CA 91107

Susan Romeo

Phone: 626-744-5600

Fax: 626-744-5610

Web site: www.calstart.org

Clean Cities Program,

U.S. Dept. of Energy

1000 Independence Ave. SW, EE-34,

Washington, DC 20585

Shelley Launey, Program Director

Phone: 800-224-8437/202-586-1573

Fax: 703-586-1600

Web site: www.ccities.doe.gov

Electric Transit Vehicle Institute

1617-B Wilcox Blvd.,

Chattanooga, TN 37404

John Powell

Phone: 423-622-3884

Fax: 423-622-0744

Web site: www.etvi.org

Electric Vehicle Association of the Americas

701 Pennsylvania Ave. NW, 4th Floor,

Washington, DC 20004

Kateri Callahan, Executive Director

Phone: 202-508-5995

Fax: 202-508-5924

Web site: www.evaa.org

Information Sources for Heavy Vehicles & Engines - cont'd

Engine Manufacturers Association

Two N. LaSalle St., Suite 2200,
Chicago, IL 60602

Joe Cipolletti, executive director

Phone: 312-827-8733

Fax: 312-827-8737

Web site: www.engine-manufacturers.org

Federal Transit Administration (U.S.)

400 7th St. SW, TRI-20,
Washington, DC 20590

William Siegel, Director, Office of Technology

Phone: 202-366-0942

Fax: 202-366-3765

Web site: www.fta.dot.gov/research/equip

Gas Technology Institute

1700 South Mt. Prospect Rd.,
Des Plaines, IL 60018

William E. Liss

Phone: 847-768-0753

Fax: 847-768-0501

Web site: www.gti.org

International Association for Natural Gas Vehicles (New Zealand)

PO Box 28-590,
Auckland, New Zealand

Dr. Garth Harris, Secretary General

Phone: 64-9-524-0945

Fax: 64-9-520-3122

Web site: www.iangv.org

National Alternative Fuels Training Consortium

1460 Earl Core Rd.,
Morgantown, WV 26506

Bill McGlinchey

Phone: 304-293-7882

Fax: 304-293-6944

Web site: <http://naftp.nrcce.wvu.edu>

National Biodiesel Board

3337A Emerald Lane,
Jefferson City, MO 65110-4898

Joe Jobe, executive director

Phone: 573-635-3893

Fax: 573-635-7913

Web site: www.nbb.org

National Propane Gas Association

1600 Eisenhower Lane, Suite 100,
Lisle, IL 60532-2167

Sue Spear, Director of Education & Safety Activities

Phone: 630-515-0600

Fax: 630-515-8774

Web site: www.npga.org

National Renewable Energy Laboratory (NREL)

1617 Cole Blvd.,
Golden, CO 80401-3393

Kevin Walkowicz

Phone: 303-275-3607

Fax: 303-275-4415

Web site: www.nrel.gov

Natural Gas Vehicle Coalition

1100 Wilson Blvd., Suite 850,
Arlington, VA 22209

Richard Kolodziej, President

Phone: 703-527-3022

Fax: 703-527-3025

Web site: www.ngvc.org

Propane Education & Research Council

1776 K St. NW, Suite 204,
Washington, DC 20006

Roy Willis, President

Phone: 202-452-8975

Fax: 202-452-9054

Web site: www.propanecouncil.org

Propane Vehicle Council

1155 Connecticut Ave NW, Suite 300,
Washington, DC 20036

Joe Coleneri, Executive Director

Phone: 202-530-0479

Fax: 202-429-0977

Web site: www.propanegas.com/vehicle

U.S. Dept. of Energy Office of Transportation Technologies

1000 Independence Ave. SW, EE-33,
Washington, DC 20585

Steve Goguen

Phone: 202-586-8044

Web site: www.ott.doe.gov

Information Sources for Heavy Vehicles & Engines - cont'd

**U.S. Environmental Protection Agency Office of
Transportation and Air Quality**

1200 Pennsylvania Ave NW, 6401A,
Washington, DC 20460

Margo T. Oge

Phone: 202-564-1682

Fax: 202-564-1686

Web site: *www.epa.gov/otaq*

U.S. Fuel Cell Council

1625 K St. NW, Suite 725,
Washington, DC 20006

Bob Rose

Phone: 202-293-5500

Fax: 202-785-4313

Web site: *www.usfcc.com*

Vehicle & Engine Manufacturer Contact Information

Advanced Vehicle Systems Inc.

Kirk Shore

Phone: 423-821-3146

Fax: 423-821-0042

Web site: www.avsbus.com

Alternative Fuel Technology

Robert Lynch

Phone: 972-392-1949

Fax: 972-661-1776

Web site: www.cleanair1.com

Arrow Specialty Co.

Kavas Mistry

Phone: 800-331-3662

Fax: 918-592-1481

Web site: www.arrowspecialty.com

Blue Bird Corp.

Rusty Mitchell

Phone: 478-822-2262

Fax: 478-822-2466

Web site: www.blue-bird.com

Capstone Turbine Corp.

Keith Field

Phone: 818-734-5465

Fax: 818-734-5320

Web site: www.microturbine.com

Caterpillar/Power Systems Associates

Ray Hartwell

Phone: 309-578-3550

Fax: 309-578-6466

Web site: www.caterpillar.com

Champion Bus Inc.

Paul Allmacher

Phone: 800-776-4943

Fax: 810-724-1844

Web site: www.championbus.com

Chance Coach Inc.

Fred Gilliam

Phone: 316-838-1211

Fax: 316-779-7727

Web site: www.chancecoach.com

Crane Carrier Co.

Richard Hugger

Phone: 918-836-1651

Fax: 918-832-7343

Web site: www.cranecarrier.com

Cummins Westport Inc.

Scott Davidson

Phone: 812-377-1734

Fax: 812-377-3082

Web site: www.cummins.com or www.westport.com

Deere Power Systems Group

Glen Crusciel

Phone: 319-292-5465

Fax: 319-292-5075

Web site: www.deere.com

Detroit Diesel Corp.

John Craft

Phone: 313-592-5000

Fax: 313-592-8176

Web site: www.detroitdiesel.com

Eldorado National

Gentry Shaw

Phone: 909-591-9557

Fax: 909-591-5285

Web site: www.lasseter.com/eldorado.htm

Electric Vehicles International

Paul Johnson

Phone: 800-618-3722

Fax: 765-643-3726

Web site: www.evi-usa.com

Elgin Sweeper Co.

Brian Giles

Phone: 847-741-5370

Fax: 847-742-3035

Web site: www.elginsweeper.com

Freightliner Custom Chassis Corp.

Bryan Henke

Phone: 864-487-1700

Fax: 864-487-6400

Web site: www.freightlinerchassis.com

Freightliner Trucks

Keith Harrington

Phone: 503-745-8136

Fax: 503-735-6827

Web site: www.freightliner.com

Ford Motor Co.

Shannon Gibson

Phone: 888-360-3907

Fax: 313-336-3094

Web site: www.fleet.ford.com

Vehicle & Engine Manufacturer Contact Information - cont'd

ISE Research Corp.

George Schuh

Phone: 619-287-8785, ext. 129

Fax: 619-287-8795

Web site: www.isereseach.com

Jasper Engines & Transmissions

Calvin Thorn

Phone: 800-827-7455

Fax: 812-634-1820

Web site: www.jasperengines.com

Mack Trucks Inc.

Stephen Ginter

Phone: 610-709-3259

Fax: 610-709-2380

Web site: www.macktrucks.com

Magnum Terminal Tractors/Kalmar Industries

Ron Gage

Phone: 800-982-1527 or 903-759-5490

Fax: 903-297-8166

Web site: www.magnumterminaltractor.com

Motive Power Industries, a Wabtec Co.

Dennis Nott

Phone: 208-947-3022

Fax: 208-947-3040

Web site: www.wabtec.com

Motor Coach Industries

John Andrews

Phone: 800-428-7626 or 847-299-9900

Fax: 847-299-7843

Web site: www.mcicoach.com

Neoplan USA Corp.

Joyce D. Surprise

Phone: 719-336-3256

Fax: 719-336-4201

Web site: www.neoplanusa.com

New Flyer of America

Philippe Bellon

Phone: 204-224-1251

Fax: 204-224-4214

Web site: www.newflyer.com

North American Bus Industries

Richard Himes

Phone: 805-529-5080

Fax: 805-529-3858

Web site: www.nabiusa.com

Nova Bus Corp.

Joseph R. Gibson

Phone: 450-974-0111

Fax: 972-870-4497

Web site: www.novabuses.com

OmniTrans

Jim Maroney

Phone: 405-840-2622

Fax: 405-840-3969

Web site: www.cngvehicle.com

Orion Bus Industries

Paul Royal

Phone: 905-403-1111

Fax: 905-403-8808

Peterbilt Motors Co.

Eric Hansen

Phone: 940-591-4277

Fax: 940-591-4091

Web site: www.peterbilt.com

Solectria Corp.

Doug Alderton

Phone: 978-658-2231

Fax: 978-658-3224

Web site: www.solectria.com

Spartan Motors Chassis Inc.

Edward Hendler

Phone: 517-543-6400

Fax: 517-543-7728

Web site: www.spartanmotors.com

Supreme Corp./Specialty Vehicles Inc.

Dale DeLine

Phone: 714-848-8455

Fax: 714-848-2114

Web site: www.specialtyvehicles.com

Thomas Built Buses

Ron Dillard

Phone: 336-841-5725

Fax: 336-841-5734

Web site: www.thomasbus.com

TransTec

Dale Hill

Phone: 303-382-1041

Fax: 303-297-3990

Web site: www.transtec.com

Vehicle & Engine Manufacturer Contact Information - cont'd

TYMCO Inc.

Bobby L. Johnson

Phone: 800-258-9626

Fax: 254-799-2722

Web site: *www.tymco.com*

XCELLSIS Inc.

Bruce Rothwell

Phone: 604-432-9200

Fax: 604-419-6400

Web site: *www.xcellsis.com*

Volvo Trucks North America

Rick Beavan

Phone: 336-393-2779

Fax: 336-393-2197

Web site: *www.volvotrucks.com*

Alternative Fuel Medium & Heavy Engines

Alternative Fuel Technology

Web site: <http://www.cleanair1.com>

Phone: 972-392-1949

Dealer locator Web site: N/A

Dealer locator phone: N/A

H/D DT466 Natural Gas

Fuel type: CNG; LNG

Displacement: 7.6 liter

Rated horsepower: 250 hp

Peak torque: 640 ft.-lb.

Emission certification(s): CARB Low NOx

(2.0); EPA Heavy-Duty; EPA LEV

Emission control device? Yes

Number of Cylinders: 6

Dry weight: 2,200 lb.

Application(s): Truck; transit bus; school bus; trolley; shuttle; offroad

Model description: Spark-ignited, dedicated closed-loop, stoichiometric, electronic-controlled, tamper-proof.

Warranty information: 10-yr./300,000-mi.

Caterpillar

Web site: <http://www.caterpillar.com>

Phone: 309-675-1000

Dealer locator Web site: <http://www.caterpillar.com/dealers>

Dealer locator phone: N/A

C-10 Dual-Fuel

Fuel type: CNG; LNG

Displacement: 10 liter

Rated horsepower: 305 hp

Peak torque: 1050 ft.-lb.

Emission certification(s): EPA LEV; CARB Low NOx (2.5)

Emission control device? No

Number of cylinders: 6

Dry weight: 2100 lb.

Application(s): Offroad; transit bus; truck

Model description: Similar performance to diesel; clean emissions; compatible with compression brake installation; full electronic operation; diesel resale value at trade time; attractive operating economies depending on location, mileage.

Warranty information: Same as standard diesel.

C-12 Dual-Fuel

Fuel types: CNG, LNG

Displacement: 12 liter

Rated horsepower: 410 hp

Peak torque: 1250 ft.-lb.

Emission certification(s): EPA LEV; CARB Low NOx

Emission control device? No

Number of Cylinders: 6

Dry weight: 2120 lb.

Application(s): Truck; transit bus; offroad

Model description: Similar to diesel performance; clean emissions; diesel resale value at trade time. Full electronic operation.

Warranty information: Same as standard diesel.

3126E Dual-Fuel 190

Fuel type: CNG; LNG

Displacement: 7.2 liter

Rated horsepower: 190 hp

Peak torque: 520 ft.-lb.

Emission certification(s): CARB Low NOx (2.5); EPA LEV

Emission control device? No

Number of cylinders: 6

Dry weight: 1347 lb.

Application(s): Truck; school bus; trolley; shuttle

Model description: Similar performance to diesel; better fuel efficiency than spark-ignited, gas engines; clean emissions; compatible with compression brakes installation; full diesel resale value at trade time; full electronic operation.

Warranty information: Same as standard diesel.

3126E Dual-Fuel 250

Fuel type: CNG; LNG

Displacement: 7.2 liter

Rated horsepower: 250 hp

Peak torque: 640 ft.-lb.

Emission certification(s): CARB Low NOx (2.5); EPA LEV

Emission control device? No

Number of cylinders: 6

Dry weight: 1347 lb.

Application(s): Truck; school bus; trolley; shuttle

Model description: Similar performance to diesel; better fuel efficiency than spark-ignited, gas engines; clean emissions; compatible with compression brakes installation; full diesel resale value at trade time; full electronic operation.

Warranty information: Same as standard diesel.

Cummins Westport Inc.

Web site: <http://www.cummins.com>

Phone: 1-800-343-7357

Dealer locator Web site: <http://www.cummins.com>

Dealer locator phone: 1-800-343-7357

B5.9G 150 Fuel type: CNG; LNG Displacement: 5.9 liter Rated horsepower: 150 hp Peak torque: 375 ft.-lb.	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0) Emission control device? Yes Number of cylinders: 6 Dry weight: 910 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. Warranty information: 2 years, unlimited miles (all markets).
B5.9G 195 Fuel type: CNG; LNG Displacement: 5.9 liter Rated horsepower: 195 hp Peak torque: 420 ft.-lb.	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0) Emission control device? Yes Number of cylinders: 6 Dry weight: 910 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. Warranty information: 2 years, unlimited miles (all markets).
B5.9G 230 Fuel type: CNG; LNG Displacement: 5.9 liter Rated horsepower: 230 hp Peak torque: 500 ft.-lb.	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0) Emission control device? Yes Number of cylinders: 6 Dry weight: 910 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. Warranty information: 2 years, unlimited miles (all markets).
B5.9LPG Fuel type: Propane Displacement: 5.9 liter Rated horsepower: 195 hp Peak torque: 420 ft.-lb.	Emission certification(s): EPA LEV; EPA Heavy- Duty; CARB Low NOx (2.5) Emission control device? Yes Number of cylinders: 6 Dry weight: 910 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on HD-5 propane. Warranty information: 2 years, unlimited miles (all markets).
C8.3G Plus 250 Fuel type: CNG; LNG Displacement: 8.3 liter Rated horsepower: 250 hp Peak torque: 660 ft.-lb.	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0) Emission control device? Yes Number of cylinders: 6 Dry weight: 1330 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. The C8.3G is certified with a catalyst to the HD urban bus emissions standards. Warranty information: 2 years, unlimited miles (bus); 2 years, 100,000 miles (truck).
C8.3G Plus 275 Fuel type: CNG; LNG Displacement: 8.3 liter Rated horsepower: 275 hp Peak torque: 750 ft.-lb.	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0) Emission control device? Yes Number of cylinders: 6 Dry weight: 1330 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. The C8.3G is certified with a catalyst to the HD urban bus emissions standards. Warranty information: 2 years, unlimited miles (bus); 2 years, 100,000 miles (truck).
C8.3G Plus 280 Fuel type: CNG; LNG Displacement: 8.3 Rated horsepower: 280 hp Peak torque: 850 ft.-lb.	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty; CARB Low NOx (2.0) Emission control device? Yes Number of cylinders: 6 Dry weight: 1330 lb. Application(s): Truck; school bus; trolley; shuttle; refuse	Model description: Lean-burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. The C8.3G is certified with a catalyst to the HD urban bus emissions standards. Warranty information: 2 years, unlimited miles (bus); 2 years, 100,000 miles (truck).

Detroit Diesel Corp.

Web site: <http://www.detroitdiesel.com>

Phone: 313-592-5000

Dealer locator Web site: <http://www.detroitdiesel.com>

Dealer locator phone: 313-592-5000

Series 50G

Fuel type: CNG; LNG

Displacement: 8.5 liter

Rated horsepower: 275 hp

Peak torque: 890 ft.-lb.

Emission certification(s): EPA Heavy-Duty; CARB Low NOx (2.0)

Emission control device? No

Number of cylinders: 4

Dry weight: 2230 lb.

Application(s): Transit bus; truck; gen set

Model description: Dedicated natural gas, full elec. control, flat torque 1200-1800 rpm, coil-over-plug ignition system, engine protection via knock sensor, exhaust temp. sensor.

Warranty information: 0-24 months unlimited miles; parts/labor on catalytic converter: 25-60 months/100,000 mi.; parts/labor on accessories: 0-50,000 mi.

Series 60G 330

Fuel type: CNG; LNG

Displacement: 12 liter

Rated horsepower: 330 hp

Peak torque: 1400 ft.-lb.

Emission certification(s): EPA Heavy-Duty; CARB Low NOx (2.5)

Emission control device? No

Number of cylinders: 6

Dry weight: 2660 lb.

Application(s): Transit bus; truck; gen set

Model description: Dedicated natural gas, full elec. control, flat torque from 1200-1800 rpm, coil-over-plug ignition system, engine protection via knock sensor, exhaust temp. sensor.

Warranty information: 0-24 months unlimited miles; parts/labor on catalytic converter: 25-60 months/100,000 mi.; parts/labor on accessories: 0-50,000 mi.

Series 60G 400

Fuel type: CNG; LNG

Displacement: 12 liter

Rated horsepower: 400 hp

Peak torque: 1450 ft.-lb.

Emission certification(s): EPA Heavy-Duty; CARB Low NOx (2.5)

Emission control device? No

Number of cylinders: 6

Dry weight: 2660 lb.

Application(s): Transit bus; truck; gen set

Model description: Dedic. natural gas, full elec. control, flat torque from 1200-1800 rpm, coil-over-plug ignition system, engine protection via knock sensor, exhaust temp. sensor.

Warranty information: 0-24 months unlimited miles; parts/labor on catalytic converter: 25-60 months/100,000 mi.; parts/labor on accessories: 0-50,000 mi.

Jasper Alternate Fuels

Web site: <http://www.jasperengines.com>

Phone: 800-827-7455

Dealer locator Web site: deltapropane@citlink.net

Dealer locator phone: 916-775-1111

Jasper 460

Fuel type: Propane

Displacement: 7.5 liter

Rated horsepower: 110 hp

Peak torque: 393 ft.-lb.

Emission certification(s): CARB Low NOx (1.5)

Emission control device? Yes

Number of cylinders: 8

Dry weight: 1000 lb.

Application(s): Offroad

Model description: Engine is equipped with Terminox-DGC digital closed-loop fuel control-flywheel, industrial bellhousing, exhaust headers, Y manifold total exhaust.

Warranty information: Warranted for a period of 2 years or 1,500 hours, whichever comes first.

John Deere Power Systems

Web site: <http://www.deere.com>

Phone: 319-292-5465

Dealer locator Web site: <http://www.deere.com>

Dealer locator phone: 1-800-533-6446

6081H 250

Fuel type: CNG

Displacement: 8.1

Rated horsepower: 250 hp

Peak torque: 800 ft.-lb.

Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.5)

Emission control device? No

Number of cylinders: 6

Dry weight: 1470 lb.

Application(s): Truck; transit bus; school bus; shuttle; other

Model description: John Deere PowerTech 8.1L, 250 hp engine utilizes lean-burn, closed-loop adaptive-learn technology. The electronically controlled fuel management system provides excellent emissions control, diesel-like performance, fuel economy, and reliability while reducing maintenance costs and lowering noise levels.

Warranty information: School and activity buses: 5 years/100,000 miles, whichever occurs first, from the date of delivery to the first retail purchaser. Extended warranty is available. Commercial buses: 2 years from date of delivery to the first purchaser; no distance limit. Extended warranty available.

6081H 280

Fuel type: CNG

Displacement: 8.1

Rated horsepower: 280 hp

Peak torque: 900 ft.-lb.

Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.0)

Emission control device? Yes

Number of cylinders: 6

Dry weight: 1470 lb.

Application(s): Truck; transit bus; school bus; shuttle; other

Model description: John Deere PowerTech 8.1L, 280 hp engine utilizes lean-burn, closed-loop adaptive-learn technology. The electronically controlled fuel management system provides excellent emissions control, diesel-like performance, fuel economy, and reliability while reducing maintenance costs and lowering noise levels.

Warranty information: School and activity buses: 5 years/100,000 miles, whichever occurs first, from the date of delivery to the first retail purchaser. Extended warranty is available. Commercial buses: 2 years from date of delivery to the first purchaser; no distance limit. Extended warranty available.

6068H

Fuel type: CNG

Displacement: 6.8

Rated horsepower: 225 hp

Peak torque: 640 ft.-lb.

Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.5)

Emission control device? No

Number of cylinders: 6

Dry weight: 1290 lb.

Application(s): Truck; transit bus; school bus; shuttle; other

Model description: John Deere PowerTech 6.8L natural gas engine rate at 225 hp is a dedicated CNG engine that utilizes lean-burn, closed-loop, adaptive-learn technology. The electronically controlled fuel management system provides diesel-like performance, fuel economy, and reliability while reducing maintenance costs and significantly lowering noise levels.

Warranty information: School bus and activity bus: 5 years/100,000 miles, whichever occurs first from date of delivery to the first retail purchaser. Extended warranty available. Commercial bus: 2 years from date of delivery to first retail purchaser; no distance limit. Extended warranty available.

Mack Trucks, Inc.

Web site: <http://www.macktrucks.com>

Phone: 610-709-3259

Dealer locator Web site: <http://www.macktrucks.com>

Dealer locator phone: N/A

Eco-Tech E7G 325

Fuel type: CNG; LNG

Displacement: 12

Rated horsepower: 325 hp

Peak torque: 650 ft.-lb.

Emission certification(s): CARB Low NOx (2.0)

Emission control device? No

Number of cylinders: 6

Dry weight: 2,150 lb.

Application(s): Truck

Model description: 21% torque rise. Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with wastegate turbo for excellent fuel economy.

Warranty information: 2-yr./300,000-mi. warranty with 5-yr./500,000-mi. major component warranty.

Eco-Tech E7G 325

Fuel type: CNG; LNG

Displacement: 12

Rated horsepower: 325 hp

Peak torque: 1180 ft.-lb.

Emission certification(s): CARB Low NOx (2.5)

Emission control device? No

Number of cylinders: 6

Dry weight: 2150 lb.

Application(s): Truck

Model description: 35% torque rise. Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with wastegate turbo for excellent fuel economy.

Warranty information: 3-yr./300,000-mi. warranty with 5-yr./500,000-mi. warranty on major components. Custom warranties available.

Eco-Tech E7G 350
Fuel type: CNG; LNG
Displacement: 12
Rated horsepower: 350 hp
Peak torque: 1250 ft.-lb.

Emission certification(s): EPA Heavy-Duty;
CARB Low NOx (2.5)
Emission control device? No
Number of cylinders: 6
Dry weight: 2150 lb.
Application(s): Truck

Model description: 23% torque rise. Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with waste gate turbo for excellent fuel economy.
Warranty information: 3-yr./300,000-mi. warranty with 5-yr./500,000-mi. warranty on major components. Custom warranties available.

Natural Gas & Propane Medium & Heavy Vehicles

Blue Bird Corp.

Web site: <http://www.blue-bird.com>

Phone: 478-822-2262

Dealer locator Web site: <http://www.blue-bird.com>

Dealer locator phone: N/A

CSFE Commercial Series Front-Engine Bus

Application(s): Transit bus; shuttle

Fuel type: LNG

Engine make(s)/model(s): Cummins 5.9G

Transmission make(s)/model(s): Allison MT643; Allison B300; Allison B300 R

Transmission type: Automatic

Emission certification(s): EPA LEV
MSRP with alternative fuel: \$ 90,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 30,000 lb.
Seating capacity: 49

Model description: Available in 25- to 37-foot lengths, with engines equipped for either LNG or CNG.

Warranty information: N/A

CSFE Commercial Series Front-Engine Bus

Application(s): Transit bus; shuttle

Fuel type: CNG

Engine make(s)/model(s): Cummins 5.9G

Transmission make(s)/model(s): Allison MT643; Allison B300; Allison B300 R

Transmission type: Automatic

Emission certification(s): EPA LEV
MSRP with alternative fuel: \$ 90,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 30,000 lb.
Seating capacity: 49

Model description: Available in 25- to 37-foot lengths, with engines equipped for either LNG or CNG.

Warranty information: N/A

CSRE Commercial Series Rear-Engine Bus

Application(s): Transit bus; shuttle

Fuel type: CNG

Engine make(s)/model(s): Deere 6068H; Deere 6081H; Cummins 5.9G

Transmission make(s)/model(s): Allison AT545, MT643, B300, B300R

Transmission type: Automatic

Emission certification(s): EPA LEV; EPA ULEV; CARB Low NOx (2.5)
MSRP with alternative fuel: \$ 150,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: N/A
Seating capacity: N/A

Model description: Available in 32- to 39-foot lengths. Emission certification depends on engine make.

Warranty information: N/A

Q-Bus (QBRE)

Application(s): Transit bus; shuttle

Fuel type: CNG

Engine make(s)/model(s): Deere 6068H; Deere 6081H; Cummins 5.9G

Transmission make/model: Allison AT545

Transmission type: Automatic

Emission certification(s): EPA LEV; EPA ULEV; CARB Low NOx (2.5)
MSRP with alternative fuel: \$ 190,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 30,000 lb.
Seating capacity: 33

Model description: Rear-engine, 29-foot bus with custom-designed chassis and heavy-duty suspension. All-steel body construction. Emission certification depends on engine make.

Warranty information: N/A

Champion Bus Inc.

Web site: <http://www.championbus.com>

Phone: 800-776-4943

Dealer locator Web site: N/A

Dealer locator phone: 800-776-4943

Crusader

Application(s): Transit bus; shuttle; paratransit

Fuel type: CNG

Engine make(s)/model(s): Ford, GM

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5)
MSRP with alternative fuel: \$ 55,000
Fuel capacity: 30 DGE
Estimated driving range: 300 miles
GVW: 10,700 lb.
Seating capacity: 14

Model description: Type 2 steel hoop-wrapped tanks; Ford, Chevy cutaway chassis.

Warranty information: Chassis: 3-yr / 36,000-mi.; body: 5-yr / 75,000-mi.

Challenger Application(s): Transit bus; shuttle; paratransit Fuel type: CNG Engine make(s)/model(s): Ford natural gas engines; GM natural gas engines Transmission make(s)/model(s): N/A Transmission type: Automatic	Emission certification(s): EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 60,000 Fuel capacity: 33 DGE Estimated driving range: 300 miles GVW: 14,000 lb. Seating capacity: 25	Model description: Type 2 steel hoop-wrapped tanks; Ford or Chevrolet cutaway chassis. Warranty information: Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.
Commodore Application(s): Shuttle; paratransit Fuel type: Propane Engine make(s)/model(s): GM 5.7 LPG Transmission make(s)/model(s): N/A Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty; EPA ULEV; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 65,000 Fuel capacity: 21 DGE Estimated driving range: 300 miles GVW: 14,100 lb. Seating capacity: 21	Model description: Workhorse P30 rail chassis. Warranty information: Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.
CTS Application(s): Transit bus; shuttle; paratransit Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): Allison AT545 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (1.5); EPA ULEV MSRP with alternative fuel: \$ 89,000 Fuel capacity: 36 DGE Estimated driving range: 300 miles GVW: 19,000 lb. Seating capacity: 37	Model description: N/A Warranty information: Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.
Contender Application(s): Transit bus; shuttle Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): Allison MT643 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 185,000 Fuel capacity: 39 DGE Estimated driving range: 300 miles GVW: 28,000 lb. Seating capacity: 35	Model description: N/A Warranty information: Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.
Solo Application(s): Transit bus; shuttle; paratransit Fuel type: CNG Engine make/model: Cummins 5.9G 230 Transmission make(s)/model(s): Allison MT643 Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty; EPA ULEV; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 220,000 Fuel capacity: 70 DGE Estimated driving range: 300 miles GVW: 31,000 lb. Seating capacity: 28	Model description: Low-floor design, pressed steel tanks, 3,600 psi Warranty information: Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.
Crusader Application(s): Transit bus; shuttle; paratransit Fuel type: Propane Engine make(s)/model(s): Ford LPG; GM LPG Transmission make(s)/model(s): N/A Transmission type: Automatic	Emission certification(s): EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5) MSRP with alternative fuel: \$55,000 Fuel capacity: 20 DGE Estimated driving range: 300 miles GVW: 10,700 lb. Seating capacity: 14	Model description: Ford or Chevrolet cutaway chassis. Warranty information: Chassis: 3-yr / 36,000-mi.; body: 5-yr. / 75,000-mi.

Challenger Application(s): Transit bus; shuttle; paratransit Fuel type: Propane Engine make(s)/model(s): Ford LPG; GM LPG Transmission make(s)/model(s): N/A Transmission type: Automatic Emission certification(s): EPA ULEV; EPA Heavy-Duty; CARB Low NOx (1.5)	MSRP with alternative fuel: \$ 60,000 Fuel capacity: 21 DGE Estimated driving range: 300 miles GVW: 14,000 lb. Seating capacity: 25	Model description: Ford or Chevrolet cutaway chassis. Warranty information: Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.
Commodore Application(s): Shuttle; paratransit Fuel type: CNG Engine make(s)/model(s): GM 5.7 natural gas Transmission make(s)/model(s): N/A Transmission type: Automatic Emission certification(s): EPA Heavy-Duty; EPA	ULEV; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 65,000 Fuel capacity: 32 DGE Estimated driving range: 300 miles GVW: 14,100 lb. Seating capacity: 21	Model description: Type 2 steel hoop-wrapped tanks; workhorse P30 rail chassis. Warranty information: Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.
Solo Application(s): Transit bus; paratransit Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): Allison MT643 Transmission type: Automatic Emission certification(s): EPA Heavy-Duty; EPA	ULEV; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 220,000 Fuel capacity: 46 DGE Estimated driving range: 300 miles GVW: 31,000 lb. Seating capacity: 28	Model description: Low-floor design Warranty information: Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.
Contender Application(s): Transit bus; shuttle; paratransit Fuel type: CNG Engine make(s)/model(s): Cummins 5.9 G Transmission make(s)/model(s): Allison MT643 Transmission type: Automatic Emission certification(s): EPA LEV; EPA Heavy-	Duty; EPA ULEV; CARB Low NOx (1.5) MSRP with alternative fuel: \$ 185,000 Fuel capacity: 60 DGE Estimated driving range: 300 miles GVW: 28,000 lb. Seating capacity: 35	Model description: Pressed steel tanks, 3,600 psi Warranty information: Chassis: 1-yr. / 24,000-mi.; transmission: 2-yr. / 100,000-mi.; body: 5-yr. / 75,000-mi.; engine: 2-yr. / unlimited.
CTS Application(s): Transit bus; paratransit; shuttle Fuel type: CNG Engine make(s)/model(s): Cummins 5.9G 195 Transmission make(s)/model(s): Allison AT545 Transmission type: Automatic Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (1.5); EPA ULEV	MSRP with alternative fuel: \$ 89,000 Fuel capacity: 55 DGE Estimated driving range: 300 miles GVW: 19,000 lb. Seating capacity: 37	Model description: Pressed steel tanks, 3,600 psi Warranty information: Chassis: 3-yr. / 36,000-mi.; body: 5-yr. / 75,000-mi.

Chance Coach, Inc.

Web site: <http://www.chancecoach.com>

Phone: 888-391-1777

Dealer locator Web site: N/A

Dealer locator phone: N/A

AH-28 Application(s): Trolley Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): Allison MT643; Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV; CARB Low NOx (2.5) MSRP with alternative fuel: \$ 290,000 Fuel capacity: 49 DGE Estimated driving range: 250 miles GVW: 26,500 lb. Seating capacity: 28	Model description: Early 20th century American streetcar styling. Warranty information: Complete coach: one year / 50,000 mi.; engine, transmission axles and air conditioning: two years.
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OPUS Application(s): Transit bus Fuel type: CNG Engine make(s)/model(s): Cummins 5.9G 230 Transmission make(s)/model(s): Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV; CARB Low NOx (2.0) MSRP with alternative fuel: \$ 285,000 Fuel capacity: 93 DGE Estimated driving range: 250 miles GVW: 33,500 lb. Seating capacity: 27	Model description: The new OPUS low-floor bus. Warranty information: Complete coach: one year/50,000 mi.; engine, transmission, axles, and air conditioning: two years.
AH-28 Application(s): Trolley Fuel type: CNG Engine make(s)/model(s): Cummins 5.9G 195 Transmission make(s)/model(s): Allison MT643; Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV; CARB Low NOx (2.0) MSRP with alternative fuel: \$ 312,000 Fuel capacity: 64 DGE Estimated driving range: 250 miles GVW: 28,500 lb. Seating capacity: 28	Model description: Early 20th Century American streetcar styling. Roof-mounted fuel tanks. Warranty information: Complete coach: one year/50,000 mi.; engine, transmission axles and air conditioning: two years.
Crane Carrier Co. Web site: http://www.cranecarrier.com		
Phone: 918-836-1651 Dealer locator Web site: N/A Dealer locator phone: N/A		
LCF Application(s): Truck Fuel type: LNG Engine make(s)/model(s): Cummins C8.3G Plus 275 Transmission make(s)/model(s): Allison MD3560P Transmission type: Automatic	Emission certification(s): EPA ULEV; EPA LEV MSRP with alternative fuel: \$ N/A Fuel capacity: 74 DGE Estimated driving range: 200 miles GVW: 66,000 lb. Seating capacity: 2	Model description: Low cab forward, tilt cab designed for refuse collection, heavy-duty. Left, right, or dual steering. Front-mounted radiator (under cab). Single or tandem rear drive axles. Warranty information: N/A
LCF Application(s): Truck Fuel type: CNG Engine make(s)/model(s): Cummins C8.3G Plus 275 Transmission make(s)/model(s): Allison MD3560P Transmission type: Automatic	Emission certification(s): EPA ULEV; EPA LEV MSRP with alternative fuel: \$ N/A Fuel capacity: 49 DGE Estimated driving range: 200 miles GVW: 65,000 lb. Seating capacity: 2	Model description: Low cab forward, tilt cab designed for refuse collection, heavy-duty. Left, right, or dual steering. Front mounted radiator (under cab). Single or tandem rear drive axles. Warranty information: N/A
LWT Application(s): Truck Fuel type: LNG Engine make(s)/model(s): Cummins C8.3G Plus 275 Transmission make(s)/model(s): Allison MD3560P Transmission type: Automatic	Emission certification(s): EPA ULEV; EPA LEV MSRP with alternative fuel: \$ N/A Fuel capacity: 74 DGE Estimated driving range: 200 miles GVW: 66,000 lb. Seating capacity: 2	Model description: Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight-reducing aluminum components. Remote radiator above engine and behind cab. Single or tandem rear drive axles. Warranty information: N/A
LWT Application(s): Truck Fuel type: CNG Engine make(s)/model(s): Cummins C8.3G Plus 275 Transmission make(s)/model(s): Allison MD3560P Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV MSRP with alternative fuel: \$ N/A Fuel capacity: 49 DGE Estimated driving range: 200 miles GVW: 66,000 lb. Seating capacity: 2	Model description: Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight-reducing aluminum components. Remote radiator above engine and behind cab. Single or tandem rear drive axles. Warranty information: N/A

LET2
Application(s): Truck
Fuel type: LNG
Engine make(s)/model(s): Cummins C8.3G
 Plus 275
Transmission make(s)/model(s): Allison
 MD3560P
Transmission type: Automatic

Emission certification(s): EPA ULEV; EPA LEV
MSRP with alternative fuel: \$ N/A
Fuel capacity: 74 DGE
Estimated driving range: 200 miles
GVW: 66,000 lb.
Seating capacity: 4

Model description: Low entry (both sides) tilt cab designed for refuse collection, heavy-duty. Left, right, or dual steering. Remote mounted radiator, above engine and behind cab. Single or tandem rear drive axles.
Warranty information: N/A

EIDorado National

Web site: <http://www.lassester.com/eldorado.htm>

Phone: 909-591-9557

Dealer locator Web site: N/A

Dealer locator phone: N/A

MST 2 Bus
Application(s): Transit bus; shuttle
Fuel type: Propane
Engine make/model: Cummins B5.9 LPG
Transmission make(s)/model(s): Allison AT
 545
Transmission type: Automatic

Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.0)
MSRP with alternative fuel: \$ N/A
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 19,000 lb.
Seating capacity: 31

Model description: Low-floor bus.
Warranty information: N/A

MST 2 Bus
Application(s): Transit bus; shuttle
Fuel type: CNG
Engine make(s)/model(s): Cummins B5.9 G
Transmission make(s)/model(s): Allison AT
 545
Transmission type: Automatic

Emission certification(s): EPA LEV; EPA Heavy-Duty; CARB Low NOx (2.0); EPA ULEV
MSRP with alternative fuel: \$ N/A
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 19,000 lb.
Seating capacity: 31

Model description: Low-floor bus.
Warranty information: N/A

MST 28/30 Bus
Application(s): Transit bus; shuttle
Fuel type: Propane
Engine make(s)/model(s): Cummins B5.9 LPG
Transmission make(s)/model(s): Allison AT
 545
Transmission type: Automatic

Emission certification(s): EPA LEV; CARB Low NOx (2.0)
MSRP with alternative fuel: \$ 115,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 19,000 lb.
Seating capacity: 31

Model description: Conventional-floor bus. ADA-compliant.
Warranty information: N/A

MST 28/30 Bus
Application(s): Transit bus; shuttle
Fuel type: CNG
Engine make(s)/model(s): Cummins B5.9 G
Transmission make(s)/model(s): Allison AT
 545
Transmission type: Automatic

Emission certification(s): EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty; EPA ULEV
MSRP with alternative fuel: \$ 115,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 19,000 lb.
Seating capacity: 31

Model description: Conventional-floor bus. ADA-compliant.
Warranty information: N/A

EZ Rider2 30 Bus
Application(s): Transit bus; shuttle
Fuel type: CNG
Engine make(s)/model(s): Deere 6068H;
 Deere 6081H
Transmission make(s)/model(s): Allison
Transmission type: Automatic

Emission certification(s): EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty
MSRP with alternative fuel: \$ 245,000
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 30,000 lb.
Seating capacity: 29

Model description: Low-floor bus with CNG or LNG capability. ADA-compliant. Altoona 12-year / 500,000-mile life cycle.
Warranty information: N/A

EZ Rider2 30 Bus Application(s): Transit bus; shuttle Fuel type: LNG Engine make(s)/model(s): Cummins B5.9 G; Cummins C8.3G Transmission make(s)/model(s): Allison Transmission type: Automatic	Emission certification(s): EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty MSRP with alternative fuel: \$ 245,000 Fuel capacity: N/A Estimated driving range: N/A GVW: 30,000 lb. Seating capacity: 29	Model description: Low-floor bus with CNG or LNG capability. ADA-compliant. Altoona 12-year/500,000-mile life cycle. Warranty information: N/A
Transmark 29/32 Bus Application(s): Transit bus; shuttle Fuel type: Propane Engine make(s)/model(s): Cummins B5.9 LPG Transmission make(s)/model(s): Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV; CARB Low NOx (2.0); EPA Heavy-Duty MSRP with alternative fuel: \$ 235,000 Fuel capacity: N/A Estimated driving range: N/A GVW: 29,000 lb. Seating capacity: 34	Model description: Conventional-floor bus. Altoona Bus Testing and Research Center data available. Warranty information: N/A
Transmark 29/32 Bus Application(s): Transit bus; shuttle Fuel type: CNG Engine make(s)/model(s): Cummins B5.9 G; Cummins C8.3G Transmission make(s)/model(s): Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV; CARB Low NOx (2.5); EPA Heavy-Duty; EPA ULEV MSRP with alternative fuel: \$ 235,000 Fuel capacity: N/A Estimated driving range: N/A GVW: 29,000 lb. Seating capacity: 34	Model description: Conventional-floor bus. Altoona Bus Testing and Research Center data available. Warranty information: N/A
<div> <div>Elgin Sweeper Co.</div> <div> Web site: http://www.elginsweeper.com </div> </div> <div> Phone: 847-741-5370 Dealer locator Web site: http://www.elginsweeper.com Dealer locator phone: 847-741-5370 </div>		
Crosswind J Dual Application(s): Street sweeper Fuel type: CNG Engine make(s)/model(s): Cummins B5.9G Transmission make(s)/model(s): Allison 545 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV MSRP with alternative fuel: \$ N/A Fuel capacity: 56 DGE Estimated driving range: N/A GVW: 33,000 lb. Seating capacity: 2	Model description: Sterling SC 8000 cab-over chassis with common fuel system for truck and sweeper with 52 diesel gallon equivalent. Sweeper is regeneration air type with an 8 cu. yd. rear dumping hopper. Warranty information: Truck chassis: per chassis manufacturer; sweeper: one year parts and labor.
Eagle F Dual CNG Application(s): Street sweeper Fuel type: CNG Engine make(s)/model(s): Cummins B5.9G Transmission make(s)/model(s): Allison 545 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV MSRP with alternative fuel: \$ 205,475 Fuel capacity: 56 DGE Estimated driving range: N/A GVW: 33,000 lb. Seating capacity: 2	Model description: Sterling SC 8000 cab-over chassis with common fuel system for truck and sweeper with 52 diesel gallon equivalent. Street sweeper is mechanical broom type with 4.5 cu. yd. debris hopper capable of dumping from ground level to 10 ft. high. Warranty information: Truck chassis: per chassis manufacturer; sweeper: one year parts and labor.
Air Bear Dual Application(s): Street sweeper Fuel type: Natural gas; diesel Engine make(s)/model(s): Caterpillar 3126DF Transmission make(s)/model(s): Allison 3560P Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty MSRP with alternative fuel: \$ 181,915 Fuel capacity: N/A Estimated driving range: N/A GVW: 33,000 lb. Seating capacity: 2	Model description: Single engine, recirculating, air sweeper with 5.5 cu.yd. debris hopper capable of dumping from ground level to nine feet high. Freightliner FL70 chassis. Warranty information: Truck chassis: per chassis manufacturer; sweeper: one year parts and labor.

Equipeement Labrie

Web site: <http://www.labrie.qc.ca>

Phone: 418-831-8250

Dealer locator Web site: <http://www.labrie.qc.ca>

Dealer locator phone: 418-831-8250

Automizer

Application(s): Truck

Fuel type: CNG

Engine make(s)/model(s): Cummins C8.3G 280

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): CARB Low NOx (2.5); EPA Heavy-Duty

MSRP with alternative fuel: \$ N/A

Fuel capacity: 54 DGE

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: Tandem-axle, side loading trash compaction truck.

Warranty information: Same as comparable diesel unit.

Expert 2000

Application(s): Truck

Fuel type: CNG

Engine make(s)/model(s): Cummins C8.3G 280

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 65 DGE

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: Single- or tandem-axle, side-loading trash collection truck.

Warranty information: Same as comparable diesel unit.

Ford Motor Co.

Web site: <http://www.fleet.ford.com>

Phone: 877-258-3835

Dealer locator Web site: <http://www.fleet.ford.com>

Dealer locator phone: 877-258-3835

E-450 Cutaway

Application(s): Shuttle

Fuel type: CNG

Engine make(s)/model(s): Ford natural gas engines

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): EPA ULEV

MSRP with alternative fuel: \$ N/A

Fuel capacity: 25 DGE

Estimated driving range: 290 miles

GVW: 14,050 lb.

Seating capacity: N/A

Model description: 176-inch wheelbase; in-body tank kit available.

Warranty information: Standard new vehicle limited warranty.

F-Series 350 450 550 Super Duty Bifuel Propane

Application(s): Truck

Fuel type: Propane

Engine make(s)/model(s): Ford LPG

Transmission make(s)/model(s): N/A

Transmission type: Automatic

Emission certification(s): EPA ULEV

MSRP with alternative fuel: \$ N/A

Fuel capacity: 18 DGE

Estimated driving range: N/A

GVW: 19,000 lb.

Seating capacity: N/A

Model description: Offered in chassis cab, regular cab, or crew cab in 4x2 or 4x4. Three tank configurations available. Standard 28-gallon aft-of-axle propane tank.

Warranty information: Standard new vehicle limited warranty (identical to gasoline-powered version), including three-year / 36,000-mile (60,000 km in Canada) bumper-to-bumper coverage.

Freightliner Custom Chassis

Web site: <http://www.freightlinerchassis.com>

Phone: 864-487-1700

Dealer locator Web site: N/A

Dealer locator phone: N/A

MB-45

Application(s): Transit bus; trolley; shuttle

Fuel type: CNG

Engine make(s)/model(s): Cummins 5.9G

Transmission make(s)/model(s): N/A

Transmission type: N/A

Emission certification(s): EPA LEV; EPA ULEV

MSRP with alternative fuel: \$ 47,000

Fuel capacity: 42 DGE

Estimated driving range: 300 miles

GVW: 26,000 lb.

Seating capacity: N/A

Model description: The CNG system offers a no-start safety feature.

Warranty information: Engine: 2-yr. / unlimited; fuel system: 2-yr./24,000 mi.

MB-55 Application(s): Transit bus; trolley; shuttle Fuel type: CNG Engine make(s)/model(s): Cummins 5.9G Transmission make(s)/model(s): N/A Transmission type: N/A	Emission certification(s): EPA LEV; EPA ULEV MSRP with alternative fuel: \$ 47,000 Fuel capacity: 42 DGE Estimated driving range: 300 miles GVW: 26,000 lb. Seating capacity: N/A	Model description: The CNG system offers a no start safety feature. Warranty information: Engine: 2-yr. / unlimited; fuel system: 2-yr. / 24,000 mi.
MB-45 Application(s): Transit bus; trolley; shuttle Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): N/A Transmission type: N/A	Emission certification(s): N/A MSRP with alternative fuel: \$ 47,000 Fuel capacity: N/A Estimated driving range: 300 miles GVW: 26,000 lb. Seating capacity: N/A	Model description: Rail chassis. Warranty information: Engine: 2-yr. / unlimited; fuel system: 2-yr. / 24,000 mi.
MB-55 Application(s): Transit bus; trolley; shuttle Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): N/A Transmission type: N/A	Emission certification(s): N/A MSRP with alternative fuel: \$ 47,000 Fuel capacity: N/A Estimated driving range: 300 miles GVW: 26,000 lb. Seating capacity: N/A	Model description: Rail chassis. Warranty information: Engine: Two-yr. / unlimited; fuel system: 2-yr. / 24,000 mi.

Freightliner Trucks

Web site: <http://www.freightliner.com>

Phone: 1-800-385-4357

Dealer locator Web site: N/A

Dealer locator phone: N/A

Business Class FL70 Century Class Application(s): Truck; utility; refuse Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): Allison Fuller Transmission type: Automatic; manual	Emission certification(s): EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: N/A Seating capacity: 6	Model description: N/A Warranty information: Basic: Two-yr. / unlimited mileage. Warranty may change according to the application of the vehicle.
Business Class FL70 Century Class Application(s): Truck; utility; refuse Fuel type: CNG Engine make(s)/model(s): Caterpillar 3126B; Caterpillar C12DF; Cummins 8.3G; Cummins 5.9G; Mercedes-Benz MBE 900-CNG Transmission make(s)/model(s): Allison Fuller Transmission type: Automatic; manual	Emission certification(s): EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx MSRP with alternative fuel: \$ N/A Fuel capacity: 20 DGE Estimated driving range: N/A GVW: N/A Seating capacity: 6	Model description: N/A Warranty information: Basic: Two-yr. / unlimited mileage. Warranty may change according to the application of the vehicle
Business Class FL70 Century Class Application(s): Truck; utility; refuse Fuel type: LNG Engine make(s)/model(s): Caterpillar 3126B; Caterpillar C12DF; Cummins 8.3G; Cummins 5.9G; Mercedes-Benz MBE 900-CNG Transmission make(s)/model(s): Allison Fuller Transmission type: Automatic; manual	Emission certification(s): EPA LEV; EPA Heavy-Duty; EPA ULEV; CARB Low NOx MSRP with alternative fuel: \$ N/A Fuel capacity: 20 DGE Estimated driving range: N/A GVW: N/A Seating capacity: 6	Model description: N/A Warranty information: Basic: Two-yr. / unlimited mileage. Warranty may change according to the application of the vehicle

Kalmar Industries Corp.

Web site: <http://www.magnumterminaltractor.com>

Phone: 903-759-5490

Dealer locator Web site: N/A

Dealer locator phone: N/A

Magnum TT100LPG

Application(s): Terminal tractor

Fuel type: CNG

Engine make(s)/model(s): Cummins 5.9G

Transmission make(s)/model(s): Allison MT-643

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 62 DGE

Estimated driving range: N/A

GVW: 15,000 lb.

Seating capacity: 1

Model description: N/A

Warranty information: N/A

Magnum TT100LNG

Application(s): Terminal tractor

Fuel type: LNG

Engine make(s)/model(s): Cummins 5.9G

Transmission make(s)/model(s): Allison MT-643

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 62 DGE

Estimated driving range: N/A

GVW: 15,000 lb.

Seating capacity: 1

Model description: N/A

Warranty information: N/A

Mack Trucks, Inc.

Web site: <http://www.macktrucks.com>

Phone: 610-709-3259

Dealer locator Web site: <http://www.macktrucks.com>

Dealer locator phone: N/A

MR

Application(s): Truck; refuse; concrete pumping; fuel oil delivery; block truck

Fuel type: CNG

Engine make(s)/model(s): Mack Eco-Tech E7G 325

Transmission make(s)/model(s): Allison HD4560

Transmission type: Automatic

Emission certification(s): CARB Low

NOx (2.5)

MSRP with alternative fuel: \$ 187,497

Fuel capacity: 93 DGE

Estimated driving range: N/A

GVW: 80,000 lb.

Seating capacity: 2

Model description: CNG and LNG fuel systems are factory installed options.

Warranty information: Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

MR

Application(s): Truck; refuse; concrete pumping; fuel oil delivery; block truck

Fuel type: LNG

Engine make(s)/model(s): Mack Eco-Tech E7G 325

Transmission make(s)/model(s): Allison HD4560

Transmission type: Automatic

Emission certification(s): CARB Low

NOx (2.5)

MSRP with alternative fuel: \$ 187,497

Fuel capacity: 93 DGE

Estimated driving range: N/A

GVW: 80,000 lb.

Seating capacity: 2

Model description: CNG and LNG fuel systems are factory installed options.

Warranty information: Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

LE

Application(s): Truck

Fuel type: CNG

Engine make(s)/model(s): Mack Eco-Tech E7G 325

Transmission make(s)/model(s): Allison HD4560

Transmission type: Automatic

Emission certification(s): CARB Low

NOx (2.5)

MSRP with alternative fuel: \$ 225,543

Fuel capacity: 93 DGE

Estimated driving range: N/A

GVW: 80,000 lb.

Seating capacity: 2

Model description: Dual steer refuse chassis. Available options include front, side, and rear load refuse bodies. The LE chassis is also available with a drop frame for manual side loading. CNG and LNG fuel systems are factory installed options.

Warranty information: Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

LE
Application(s): Truck
Fuel type: LNG
Engine make(s)/model(s): Mack Eco-Tech E7G 325
Transmission make(s)/model(s): Allison HD4560
Transmission type: Automatic

Emission certification(s): CARB Low NOx (2.5)
MSRP with alternative fuel: \$ 225,543
Fuel capacity: 93 DGE
Estimated driving range: N/A
GVW: 80,000 lb.
Seating capacity: 2

Model description: Dual steer refuse chassis. Available options include front, side, and rear load refuse bodies. The LE chassis is also available with a drop frame for manual side loading. CNG and LNG fuel systems are factory installed options.
Warranty information: Engine: Three-yr. / 300,000 mi.; major components: five-yr. / 500,000 mi. Custom warranties available with the best standard warranties in the industry.

MotivePower

Web site: <http://www.wabtec.com>

Phone: 800-272-7702

Dealer locator Web site: <http://www.wabtec.com>

Dealer locator phone: 800-272-7702

MP1200G
Application(s): Railroad switching locomotive
Fuel type: LNG
Engine make(s)/model(s): Caterpillar G3516 SITA
Transmission make(s)/model(s): Kato 8P6.5-3000
Transmission type: N/A

Emission certification(s): N/A
MSRP with alternative fuel: \$ 1,450,000
Fuel capacity: 868 DGE
Estimated driving range: N/A
GVW: 260,000 lb.
Seating capacity: 3

Model description: Four-axle switching locomotive with advanced microprocessor electrical and traction control systems. Locomotive has three interconnected LNG tanks for a total of 1,400 gallons.
Warranty information: Two-yr. / 200,000 mi., whichever occurs first, on parts and workmanship.

Motor Coach Industries

Web site: <http://www.mcicoach.com>

Phone: 800-743-3624

Dealer locator Web site: www.mcicoach.com/newsalesrep.html

Dealer locator phone: 800-743-3624

D4000 CNG
Application(s): Commuter bus
Fuel type: CNG
Engine make(s)/model(s): Detroit Diesel Series 60G 330
Transmission make(s)/model(s): Allison 8500
Transmission type: Automatic

Emission certification(s): CARB Low NOx (2.5)
MSRP with alternative fuel: \$ 498,157
Fuel capacity: 114 DGE
Estimated driving range: 300 miles
GVW: 46,000 lb.
Seating capacity: 47

Model description: 40-ft. high-floor commuter coach includes a baggage bay, parcel racks, wheel chair lift, reclining seats with head rests and arm rests, and airline style overhead, A/C vents and reading lights.
Warranty information: 2-yr.

Neoplan USA Corp.

Web site: <http://www.neoplanusa.com>

Phone: 719-336-3256

Dealer locator Web site: N/A

Dealer locator phone: N/A

AN 340/345 Metroliner
Application(s): Transit bus; suburban commuter
Fuel type: CNG
Engine make(s)/model(s): Detroit Diesel Series 60G
Transmission make(s)/model(s): Allison World
Transmission type: Automatic

Emission certification(s): EPA LEV; EPA Heavy-Duty
MSRP with alternative fuel: \$ N/A
Fuel capacity: N/A
Estimated driving range: 300 miles
GVW: N/A
Seating capacity: 57

Model description: ADA compliant. Accessible restroom optional. Suburban or transit interior.
Warranty information: N/A

AN 460 Articulated Low Floor
Application(s): Transit bus; commuter
Fuel type: CNG
Engine make(s)/model(s): Detroit Diesel Series 60G
Transmission make(s)/model(s): Allison World
Transmission type: Automatic

Emission certification(s): EPA LEV
MSRP with alternative fuel: \$ N/A
Fuel capacity: N/A
Estimated driving range: 250 miles
GVW: N/A
Seating capacity: 65

Model description: ADA compliant equipment available. Suburban or transit interior.
Warranty information: N/A

AN 440 Transliner Application(s): Transit bus; airport shuttle Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison World; ZF Transmission type: Automatic	Emission certification(s): EPA LEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: 300 miles GVW: N/A Seating capacity: 43	Model description: Composite tanks, arrangement optional. Warranty information: N/A
AN 440 Transliner Application(s): Transit bus; airport shuttle Fuel type: LNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison World; ZF Transmission type: Automatic	Emission certification(s): EPA LEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: 300 miles GVW: N/A Seating capacity: 43	Model description: Composite tanks, arrangement optional. Warranty information: N/A
AN 440 LF Transliner Low Floor Application(s): Transit bus; airport shuttle Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison World; ZF Transmission type: Automatic	Emission certification(s): EPA LEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: 300 miles GVW: N/A Seating capacity: 40	Model description: Low-floor with ramp. Composite tanks, arrangement optional. Warranty information: N/A
AN 440 LF Transliner Low Floor Application(s): Transit bus; airport shuttle Fuel type: LNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison World; ZF Transmission type: Automatic	Emission certification(s): EPA LEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: 300 miles GVW: N/A Seating capacity: 40	Model description: Low-floor with ramp. Composite tanks, arrangement optional. Warranty information: N/A

New Flyer of America

Web site: <http://www.newflyer.com>

Phone: 204-224-1251

Dealer locator Web site: N/A

Dealer locator phone: N/A

C30LF Transit Coach Application(s): Transit bus Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison 8300R; Allison 8400R Transmission type: Automatic	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 130 DGE Estimated driving range: 350 miles GVW: 40,600 lb. Seating capacity: 40	Model description: 30-foot low-floor transit bus. Warranty information: 1-yr. / 50,000 mi.
C35LF Transit Coach Application(s): Transit bus Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison 8300R; Allison 8400R Transmission type: Automatic	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 130 DGE Estimated driving range: 350 miles GVW: 46,000 lb. Seating capacity: 40	Model description: 35-foot, low-floor transit bus. Warranty information: 1-yr. / 50,000 mi.

C40LF Transit Coach Application(s): Transit bus Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison 8300R; Allison 8400R Transmission type: Automatic	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 130 DGE Estimated driving range: 350 miles GVW: 46,000 lb. Seating capacity: 40	Model description: 40-foot low-floor transit bus. Warranty information: 1 yr. / 50,000 mi.
L40LF Transit Bus Application(s): Transit bus Fuel type: LNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison 8300R; Allison 8400R Transmission type: Automatic	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 130 DGE Estimated driving range: 350 miles GVW: 40,600 lb. Seating capacity: 40	Model description: 40-foot low-floor transit bus. Warranty information: 1 yr. / 50,000 mi.

North American Bus Industries

Web site: <http://www.nabiusa.com>

Phone: 805-529-5080

Dealer locator Web site: N/A

Dealer locator phone: N/A

60LFW Application(s): Transit bus Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison; ZF Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty MSRP with alternative fuel: \$ 470,000 Fuel capacity: N/A Estimated driving range: 350 miles GVW: 66,600 lb. Seating capacity: 60	Model description: Optional features include all stainless steel body structure; wheelchair ramp in rear door. Warranty information: Specified by customer; typically one year or 50,000 mi. for entire bus.
60LFW Application(s): Transit bus Fuel type: LNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison; ZF Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty MSRP with alternative fuel: \$ 470,000 Fuel capacity: N/A Estimated driving range: 350 miles GVW: 66,600 lb. Seating capacity: 60	Model description: Optional features include all stainless steel body structure; wheelchair ramp in rear door. Warranty information: Specified by customer; typically one year or 50,000 mi. for entire bus.
40 LFW or 35 LFW Application(s): Transit bus Fuel type: CNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison; ZF Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty MSRP with alternative fuel: \$ 330,000 Fuel capacity: 151 DGE Estimated driving range: 400 miles GVW: 40,600 lb Seating capacity: 40	Model description: Optional features include all stainless steel body structure; wheelchair ramp in rear door. Warranty information: Specified by customer; typically one year or 50,000 mi. for entire bus.
40 LFW or 35 LFW Application(s): Transit bus Fuel type: LNG Engine make(s)/model(s): Detroit Diesel Series 50G; Cummins C8.3G Transmission make(s)/model(s): Allison; ZF Transmission type: Automatic	Emission certification(s): EPA Heavy-Duty MSRP with alternative fuel: \$ 330,000 Fuel capacity: 127 DGE Estimated driving range: 400 miles GVW: 40,600 lb. Seating capacity: 40	Model description: Optional features include all stainless steel body structure; wheelchair ramp in rear door. Warranty information: Specified by customer; typically one year or 50,000 mi. for entire bus.

Nova Bus Inc.

Web site: <http://www.novabuses.com>

Phone: 505-347-2011

Dealer locator Web site: N/A

Dealer locator phone: N/A

RTS Transit Bus

Application(s): Transit bus

Fuel type: CNG

Engine make(s)/model(s): Detroit Diesel S50G; Cummins C8.3G

Transmission make(s)/model(s): ZF

Transmission type: Automatic

Emission certification(s): EPA ULEV; EPA

Heavy-Duty

MSRP with alternative fuel: \$ N/A

Fuel capacity: 158 DGE

Estimated driving range: 400 miles

GVW: 39,500 lb.

Seating capacity: 45

Model description: Natural gas powered RTS is available in 35- and 40-foot lengths, 102 inches wide. LNG and CNG fuel tank arrangements are optional. Full range of seating options and interior trim levels are available. Fully compliant with ADA using front or exit door wheelchair lifts.

Warranty information: Standard industry warranties are available.

RTS Transit Bus

Application(s): Transit bus

Fuel type: LNG

Engine make(s)/model(s): Detroit Diesel S50G; Cummins C8.3G

Transmission make(s)/model(s): ZF

Transmission type: Automatic

Emission certification(s): EPA ULEV; EPA

Heavy-Duty

MSRP with alternative fuel: \$ N/A

Fuel capacity: 158 DGE

Estimated driving range: 400 miles

GVW: 39,500 lb.

Seating capacity: 45

Model description: Natural gas powered RTS is available in 35- and 40-foot lengths, 102 inches wide. LNG and CNG fuel tank arrangements are optional. Full range of seating options and interior trim levels are available. Fully compliant with ADA using front or exit door wheelchair lifts.

Warranty information: Standard industry warranties are available.

Omnitrans

Web site: <http://www.cngvehicle.com>

Phone: 405-840-2622

Dealer locator Web site: N/A

Dealer locator phone: N/A

GM/Isuzu/Workhorse chassis

Application(s): Truck; transit bus; school bus; trolley; shuttle

Fuel type: Propane

Engine make(s)/model(s): GM 5.7; GM 6.0; GM 8.1 LPG

Transmission make(s)/model(s): N/A

Transmission type: Automatic; manual

Emission certification(s): EPA ULEV; EPA

Heavy-Duty; CARB Low NOx (1.5)

MSRP with alternative fuel: \$ N/A

Fuel capacity: N/A

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: N/A

Warranty information: 3-yr. / 50,000-mi.

GM/Isuzu/Workhorse chassis

Application(s): Truck; transit bus; school bus; trolley; shuttle

Fuel type: LNG

Engine make(s)/model(s): GM 5.7; GM 6.0; GM 8.1 LNG

Transmission make(s)/model(s): N/A

Transmission type: Automatic; manual

Emission certification(s): EPA ULEV; EPA

Heavy-Duty; CARB Low NOx (1.5)

MSRP with alternative fuel: \$ N/A

Fuel capacity: N/A

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: N/A

Warranty information: 3-yr. / 50,000-mi.

GM/Isuzu/Workhorse chassis

Application(s): Truck; transit bus; school bus; trolley; shuttle

Fuel type: CNG

Engine make(s)/model(s): GM 5.7; GM 6.0; GM 8.1 CNG

Transmission make(s)/model(s): N/A

Transmission type: Automatic; manual

Emission certification(s): EPA ULEV; EPA

Heavy-Duty; CARB Low NOx (1.5)

MSRP with alternative fuel: \$ N/A

Fuel capacity: N/A

Estimated driving range: N/A

GVW: N/A

Seating capacity: N/A

Model description: N/A

Warranty information: 3-yr. / 50,000-mi.

Orion Bus Industries

Web site: N/A

Phone: 905-403-1111

Dealer locator Web site: N/A

Dealer locator phone: N/A

Orion VII CNG

Application(s): Transit bus

Fuel type: CNG

Engine make(s)/model(s): Detroit Diesel

Series 50G; Cummins C8.3G; John Deere 6081H

Transmission make(s)/model(s): Allison; ZF;
Voith

Transmission type: Automatic

Emission certification(s): EPA Heavy-Duty

MSRP with alternative fuel: \$ N/A

Fuel capacity: N/A

Estimated driving range: 350 miles

GVW: 41,000 lb.

Seating capacity: 44

Model description: Low-floor transit bus.

Warranty information: N/A

Peterbilt

Web site: <http://www.peterbilt.com>

Phone: 940-591-4000

Dealer locator Web site: <http://www.peterbilt.com>

Dealer locator phone: 940-591-4000

320

Application(s): Truck

Fuel type: CNG; diesel

Engine make(s)/model(s): Caterpillar 3126DF;

Caterpillar C10DF; Caterpillar C12DF

Transmission make(s)/model(s): Fuller;
Allison

Transmission type: Automatic; manual

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 81 DGE

Estimated driving range: 300 miles

GVW: 80,000 lb.

Seating capacity: 3

Model description: N/A

Warranty information: Contact Peterbilt dealer.

320

Application(s): Truck

Fuel type: LNG; diesel

Engine make(s)/model(s): Caterpillar 3126DF;

Caterpillar C10DF; Caterpillar C12DF

Transmission make(s)/model(s): Fuller;
Allison

Transmission type: Automatic; manual

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 81 DGE

Estimated driving range: 300 miles

GVW: 80,000 lb.

Seating capacity: 3

Model description: N/A

Warranty information: Contact Peterbilt dealer.

357

Application(s): Truck

Fuel type: CNG; diesel

Engine make(s)/model(s): Caterpillar 3126DF;

Caterpillar C10DF; Caterpillar C12DF

Transmission make(s)/model(s): Fuller;
Allison

Transmission type: Automatic; manual

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 81 DGE

Estimated driving range: 300 miles

GVW: 80,000 lb.

Seating capacity: 3

Model description: N/A

Warranty information: Contact Peterbilt dealer.

357

Application(s): Truck

Fuel type: LNG; diesel

Engine make(s)/model(s): Caterpillar 3126DF;

Caterpillar C10DF; Caterpillar C12DF

Transmission make(s)/model(s): Fuller;
Allison

Transmission type: Automatic; manual

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 81 DGE

Estimated driving range: 300 miles

GVW: 80,000 lb.

Seating capacity: 3

Model description: N/A

Warranty information: Contact Peterbilt dealer.

378 Application(s): Truck Fuel type: CNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.
378 Application(s): Truck Fuel type: LNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.
379 Application(s): Truck Fuel type: CNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.
379 Application(s): Truck Fuel type: LNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.
385 Application(s): Truck Fuel type: CNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.

385 Application(s): Truck Fuel type: LNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.
330 Application(s): Truck Fuel type: CNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.
330 Application(s): Truck Fuel type: LNG; diesel Engine make(s)/model(s): Caterpillar 3126DF; Caterpillar C10DF; Caterpillar C12DF Transmission make(s)/model(s): Fuller; Allison Transmission type: Automatic; manual	Emission certification(s): N/A MSRP with alternative fuel: \$ N/A Fuel capacity: 81 DGE Estimated driving range: 300 miles GVW: 80,000 lb. Seating capacity: 3	Model description: N/A Warranty information: Contact Peterbilt dealer.

Spartan Motors Chassis

Web site: <http://www.spartanmotors.com>

Phone: 517-543-6400

Dealer locator Web site: N/A

Dealer locator phone: N/A

TB Application(s): Trolley; shuttle; specialty Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG Transmission make(s)/model(s): Allison B300; Allison B400 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: 36,000 lb. Seating capacity: N/A	Model description: N/A Warranty information: 12 months/24,000 mi.
TB Application(s): Trolley; shuttle; specialty Fuel type: CNG Engine make(s)/model(s): Cummins B5.9G; Cummins C8.3G Transmission make(s)/model(s): Allison B300; Allison B400 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: 36,000 lb. Seating capacity: N/A	Model description: N/A Warranty information: 12 months/24,000 mi.

TB Application(s): Trolley; shuttle; specialty Fuel type: LNG Engine make(s)/model(s): Cummins B5.9G; Cummins C8.3G Transmission make(s)/model(s): Allison B300; Allison B400 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: 36,000 lb. Seating capacity: N/A	Model description: N/A Warranty information: 12 months/24,000 mi.
LF Application(s): Trolley; shuttle; specialty Fuel type: Propane Engine make/model: Cummins 5.9 LPG Transmission make(s)/model(s): Allison B300; Allison B400 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: 36,000 lb. Seating capacity: N/A	Model description: N/A Warranty information: 12 months/24,000 mi.
LF Application(s): Trolley; shuttle; specialty Fuel type: CNG Engine make(s)/model(s): Cummins B5.9G; Cummins C8.3G Transmission make(s)/model(s): Allison B300; Allison B400 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: 36,000 lb. Seating capacity: N/A	Model description: N/A Warranty information: 12 months/24,000 mi.
LF Application(s): Trolley; shuttle; specialty Fuel type: LNG Engine make(s)/model(s): Cummins B5.9G; Cummins C8.3G Transmission make(s)/model(s): Allison B300; Allison B400 Transmission type: Automatic	Emission certification(s): EPA LEV; EPA ULEV; EPA Heavy-Duty MSRP with alternative fuel: \$ N/A Fuel capacity: N/A Estimated driving range: N/A GVW: 36,000 Seating capacity: N/A	Model description: N/A Warranty information: 12 months/24,000 mi.

Supreme/Specialty

Web site: www.colorschemer.com/online/www.specialtyvehicles.com

Phone: 800-784-8725

Dealer locator Web site: N/A

Dealer locator phone: N/A

Classic R.E. Application(s): Trolley Fuel type: CNG with diesel Engine make(s)/model(s): Caterpillar 3126DF Transmission make(s)/model(s): Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV MSRP with alternative fuel: \$ 270,000 Fuel capacity: N/A Estimated driving range: 225 miles GVW: 31,000 lb. Seating capacity: 32	Model description: Underfloor tanks. Warranty information: 3-yr./150,000-mi.
Classic R.E. Application(s): Trolley Fuel type: Propane Engine make(s)/model(s): Cummins 5.9 LPG 195 Transmission make/model: Allison B300 Transmission type: Automatic	Emission certification(s): EPA LEV MSRP with alternative fuel: \$ 270,000 Fuel capacity: N/A Estimated driving range: 225 miles GVW: 31,000 lb. Seating capacity: 32	Model description: Underfloor tanks. Warranty information: 3-yr./150,000-mi.

Thomas Built Buses

Web site: www.colorschemer.com/online/www.thomasbus.com

Phone: 336-889-4871

Dealer locator Web site: <http://www.thomasbus.com>

Dealer locator phone: N/A

Saf-T-Liner

Application(s): School bus

Fuel type: CNG

Engine make(s)/model(s): Cummins B5.9G;

John Deere 6068H

Transmission make(s)/model(s): Allison MD 3060

Transmission type: Automatic

Emission certification(s): EPA LEV

MSRP with alternative fuel: \$ 100,000

Fuel capacity: 118 DGE

Estimated driving range: N/A

GVW: 36,200 lb.

Seating capacity: 84

Model description: Composite tanks.

Warranty information: N/A

Tymco

Web site: <http://www.colorschemer.com/online/www.tymco.com>

Phone: 254-799-5546

Dealer locator Web site: N/A

Dealer locator phone: 254-799-2722

600

Application(s): Street sweeper

Fuel type: CNG

Engine make(s)/model(s): GM 5.7 natural gas

Transmission make(s)/model(s): Allison

AT545

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: 48 DGE

Estimated driving range: N/A

GVW: 33,000 lb.

Seating capacity: 2

Model description: Four 16-inch diameter by 61-inch length composite wrapped steel cylinders located behind cab of truck

Warranty information: Standard manufacturer warranty.

Volvo Trucks North America

Web site: www.colorschemer.com/online/www.volvotrucks.com

Phone: 336-393-2000

Dealer locator Web site: N/A

Dealer locator phone: N/A

WX

Application(s): Truck; refuse

Fuel type: CNG

Engine make(s)/model(s): Cummins C8.3G

Transmission make(s)/model(s): Allison

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: N/A

Estimated driving range: 250 miles

GVW: 66,000 lb.

Seating capacity: 2

Model description: Several configurations for refuse market.

Warranty information: N/A

WX

Application(s): Truck; refuse

Fuel type: LNG

Engine make(s)/model(s): Cummins C8.3G

Transmission make(s)/model(s): Allison

Transmission type: Automatic

Emission certification(s): N/A

MSRP with alternative fuel: \$ N/A

Fuel capacity: N/A

Estimated driving range: 250 miles

GVW: 66,000 lb.

Seating capacity: 2

Model description: Several configurations for refuse market.

Warranty information: N/A

Hybrid-Electric, Battery-Electric & Fuel Cell Heavy Vehicles

Advanced Vehicle Systems Inc.

Web site: <http://www.avsbus.com>

Phone: 423-821-3146

Dealer locator Web site: N/A

Dealer locator phone: N/A

AVS-30/AVS-35

Application(s): Transit bus
Drivetrain type: Series hybrid
APU fuel type: Diesel; natural gas; propane
Battery type: Lead acid
Battery voltage: 288 volts
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: 60 kW
Traction motor continuous power: 75 kW
APU peak power: 56 kW
APU continuous power: 56 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: 8 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 55 mph
GVW: 33,700 lb.
Seating capacity: 31
Driving range: 250 miles

Available chassis: N/A
Engine make(s)/model(s): N/A
Vehicle description: N/A
Warranty information: N/A

AVS-40

Application(s): Transit bus
Drivetrain type: Series hybrid
APU fuel type: Diesel; natural gas; propane
Battery type: Lead acid
Battery voltage: 288 volts
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: 60 kW
Traction motor continuous power: 75 kW
APU peak power: 56 kW
APU continuous power: 56 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: 8 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 55 mph
GVW: 33,700 lb.
Seating capacity: 41
Driving range: 250 miles

Available chassis: N/A
Engine make(s)/model(s): N/A
Vehicle description: N/A
Warranty information: N/A

AVS-22 Pure Electric

Application(s): Transit bus
Drivetrain type: Pure electric
APU fuel type: N/A
Battery type: Lead acid
Battery voltage: 288 volts
Battery capacity: 58 kWh
Battery weight: 6,000 lb.
Traction motor peak power: 78 kW
Traction motor continuous power: 34 kW
APU peak power: N/A
APU continuous power: N/A

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: 8 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 45 mph
GVW: 25,000 lb.
Seating capacity: 22
Driving range: 65 miles

Available chassis: AVS design
Engine make(s)/model(s): N/A
Vehicle description: N/A
Warranty information: N/A

AVS-22 Hybrid

Application(s): Transit bus
Drivetrain type: Series hybrid
APU fuel type: Natural gas; diesel; propane
Battery type: Lead acid
Battery voltage: 288 volts
Battery capacity: 58 kWh
Battery weight: 4,000 lb.
Traction motor peak power: 78 kW
Traction motor continuous power: 34 kW
APU peak power: 28.8 kW
APU continuous power: 16 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: 8 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 45 mph
GVW: 25,000 lb.
Seating capacity: 22
Driving range: 250 miles

Available chassis: AVS design
Engine make(s)/model(s): Capstone Microturbine
Vehicle description: N/A
Warranty information: N/A

Capstone Turbine Corp.

Web site: <http://www.microturbine.com>

Phone: 818-734-5300

Dealer locator Web site: N/A

Dealer locator phone: N/A

Model 330/Capstone 60 (power plant only)

Application(s): Truck; transit bus; school bus; trolley; shuttle

Drivetrain type: Series hybrid

APU fuel type: Diesel; natural gas; propane

Battery type: Lead acid; lithium ion; nickel cadmium; nickel-metal-hydride; other

Battery voltage: N/A

Battery capacity: N/A

Battery weight: N/A

Traction motor peak power: N/A

Traction motor continuous power: N/A

APU peak power: 60 kW

APU continuous power: 60 kW

Motor mounting configuration: N/A

Regenerative braking? N/A

Type of charger: N/A

Charge time: N/A

Discharge rate: N/A

Lifetime mileage of storage batteries: N/A

Vehicle max. continuous speed: N/A

GVW: N/A

Seating capacity: N/A

Driving range: N/A

Available chassis: N/A

Engine make(s)/model(s): N/A

Vehicle description: Capstone supplies auxiliary power units (APUs) for production vehicle platforms.

Warranty information: Typical warranty for the APU is 12 months.

Electric Vehicles International

Web site: <http://www.evi-usa.com>

Phone: 765-643-3722

Dealer locator Web site: N/A

Dealer locator phone: N/A

Electric Trolley

Application(s): Trolley

Drivetrain type: Pure electric; series hybrid

APU fuel type: Propane

Battery type: Lead acid

Battery voltage: 320 volts

Battery capacity: 70 kWh

Battery weight: 5,200 lb.

Traction motor peak power: 84 kW

Traction motor continuous power: 30 kW

APU peak power: 12.5 kW

APU continuous power: 10 kW

Motor mounting configuration: N/A

Regenerative braking? Yes

Type of charger: N/A

Charge time: 7 hrs.

Discharge rate: N/A

Lifetime mileage of storage batteries: N/A

Vehicle max. continuous speed: 50 mph

GVW: 18,700 lb.

Seating capacity: 22

Driving range: 150 miles

Available chassis: N/A

Engine make(s)/model(s): N/A

Vehicle description: Low-floor, vintage-style trolley with advanced, quiet electric propulsion designed for nearly maintenance-free operation.

Warranty information: One year, full system including batteries.

2001 Electric Tram

Application(s): Tram

Drivetrain type: Pure electric; series hybrid

APU fuel type: Propane

Battery type: Lead acid

Battery voltage: 324 volts

Battery capacity: 70 kWh

Battery weight: 3,530 lb.

Traction motor peak power: 56 kW

Traction motor continuous power: 19 kW

APU peak power: 12.5 kW

APU continuous power: 10 kW

Motor mounting configuration: N/A

Regenerative braking? Yes

Type of charger: Conductive

Charge time: 7 hrs.

Discharge rate: N/A

Lifetime mileage of storage batteries: N/A

Vehicle max. continuous speed: 35 mph

GVW: 10,000 lb.

Seating capacity: 64

Driving range: 120 miles

Available chassis: N/A

Engine make(s)/model(s): N/A

Vehicle description: Designed for low-speed applications for up to 64 seated passengers.

Warranty information: One year, full system including batteries.

2001 Electric Bus

Application(s): Shuttle

Drivetrain type: Pure electric; series hybrid

APU fuel type: Propane

Battery type: Lead acid

Battery voltage: 320 volts

Battery capacity: 70 kWh

Battery weight: 5,200 lb.

Traction motor peak power: 84 kW

Traction motor continuous power: 30 kW

APU peak power: 12.5 kW

APU continuous power: 10 kW

Motor mounting configuration: N/A

Regenerative braking? Yes

Type of charger: Conductive

Charge time: 7 hrs.

Discharge rate: N/A

Lifetime mileage of storage batteries: N/A

Vehicle max. continuous speed: 50 mph

GVW: 18,700 lb.

Seating capacity: 22

Driving range: 150 miles

Available chassis: N/A

Engine make(s)/model(s): N/A

Vehicle description: Flux vector controller, AC motor and regenerative braking features standard. 10-kW generator option increases daily range to 150 miles.

Warranty information: One year, full system including batteries.

T801H

Application(s): Truck; transit bus; shuttle; ground service equipment
Drivetrain type: Series hybrid
APU fuel type: Gasoline; diesel; natural gas; propane; fuel cell
Battery type: Lead acid; lithium ion; nickel-metal-hydride
Battery voltage: 576 volts
Battery capacity: 50 kWh
Battery weight: N/A
Traction motor peak power: 250 kW
Traction motor continuous power: 170 kW
APU peak power: 220 kW
APU continuous power: 220 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: Conductive
Charge time: 6 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: 100,000 miles
Vehicle max. continuous speed: N/A
GVW: 55,000 lb.
Seating capacity: N/A
Driving range: 300 miles

Available chassis: Peterbilt; Kenworth; Freightliner; Volvo; Ford
Engine make(s)/model(s): N/A
Vehicle description: Class 8, 33,000-55,000 lb. chassis
Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.

T803H

Application(s): Truck; transit bus; shuttle; ground service equipment
Drivetrain type: Series hybrid
APU fuel type: Gasoline; diesel; natural gas; propane
Battery type: Lead acid; lithium ion; nickel-metal-hydride
Battery voltage: 576 volts
Battery capacity: 50 kWh
Battery weight: N/A
Traction motor peak power: 265 kW
Traction motor continuous power: 190 kW
APU peak power: 280 kW
APU continuous power: 200 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: Conductive
Charge time: 6 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: 100,000 miles
Vehicle max. continuous speed: N/A
GVW: 80,000 lb.
Seating capacity: N/A
Driving range: 300 miles

Available chassis: Peterbilt; Kenworth; Freightliner; Volvo; Ford
Engine make(s)/model(s): N/A
Vehicle description: Class 8 to 80,000 lb.
Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.

TV701HT

Application(s): Truck; transit bus; shuttle; ground service equipment
Drivetrain type: Series hybrid
APU fuel type: Gasoline; diesel; natural gas; propane; fuel cell
Battery type: Lead acid; lithium ion; nickel-metal-hydride
Battery voltage: 576 volts
Battery capacity: 50 kWh
Battery weight: N/A
Traction motor peak power: 250 kW
Traction motor continuous power: 170 kW
APU peak power: 200 kW
APU continuous power: 200 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: Conductive
Charge time: 6 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: 100,000 miles
Vehicle max. continuous speed: N/A
GVW: 32,990 lb.
Seating capacity: N/A
Driving range: 300 miles

Available chassis: Ford; GM; Peterbilt; Kenworth; Freightliner; Volvo
Engine make(s)/model(s): Ford; John Deere; Cummins; Caterpillar; GM; Capstone
Vehicle description: N/A
Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.

701AT Application(s): Truck; transit bus; shuttle; ground service equipment Drivetrain type: Pure electric; series hybrid APU fuel type: Gasoline; diesel; natural gas; propane; fuel cell Battery type: Lead acid; lithium ion; nickel-metal-hydride Battery voltage: 576 volts Battery capacity: 50 kWh Battery weight: N/A Traction motor peak power: 140 kW Traction motor continuous power: 100 kW APU peak power: N/A APU continuous power: N/A	Motor mounting configuration: N/A Regenerative braking? Yes Type of charger: Conductive Charge time: 6 hrs. Discharge rate: N/A Lifetime mileage of storage batteries: 100,000 miles Vehicle max. continuous speed: N/A GVW: 60,000 lb. Seating capacity: 2 Driving range: N/A	Available chassis: Stewart & Stevenson; TUG; Ford Engine make(s)/model(s): N/A Vehicle description: Push park tractor for aircraft up to 400,000 lb. Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.
TB30HT Application(s): Truck; transit bus; shuttle; ground service equipment Drivetrain type: Series hybrid APU fuel type: Diesel; gasoline; natural gas; fuel cell; propane Battery type: Lead acid; lithium ion; nickel-metal-hydride Battery voltage: 576 volts Battery capacity: 50 kWh Battery weight: N/A Traction motor peak power: 120 kW Traction motor continuous power: 85 kW APU peak power: 60 kW APU continuous power: 30 kW	Motor mounting configuration: N/A Regenerative braking? Yes Type of charger: Conductive Charge time: 6 hrs. Discharge rate: N/A Lifetime mileage of storage batteries: 100,000 miles Vehicle max. continuous speed: N/A GVW: 30,000 lb. Seating capacity: 28 Driving range: 180 miles	Available chassis: ElDorado National Engine make(s)/model(s): Capstone Microturbine Vehicle description: N/A Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.
TB30H Application(s): Truck; transit bus; shuttle; ground service equipment Drivetrain type: Series hybrid APU fuel type: Gasoline; diesel; natural gas; propane; fuel cell Battery type: Nickel-metal-hydride; lead acid; lithium ion Battery voltage: 576 volts Battery capacity: 50 kWh Battery weight: N/A Traction motor peak power: 120 kW Traction motor continuous power: 85 kW APU peak power: 120 kW APU continuous power: 120 kW	Motor mounting configuration: N/A Regenerative braking? Yes Type of charger: Conductive Charge time: 6 hrs. Discharge rate: N/A Lifetime mileage of storage batteries: 100,000 miles Vehicle max. continuous speed: N/A GVW: 30,000 lb. Seating capacity: 33 Driving range: 220 miles	Available chassis: ElDorado National Engine make(s)/model(s): Cummins; Ford; GM; John Deere Vehicle description: N/A Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.
TB40H Application(s): Truck; transit bus; shuttle; ground service equipment Drivetrain type: Series hybrid APU fuel type: Gasoline; natural gas; propane; diesel; fuel cell Battery type: Lead acid; lithium ion; nickel-metal-hydride Battery voltage: 576 volts Battery capacity: 50 kWh Battery weight: N/A Traction motor peak power: 220 kW Traction motor continuous power: 170 kW APU peak power: 220 kW APU continuous power: 200 kW	Motor mounting configuration: N/A Regenerative braking? Yes Type of charger: Conductive Charge time: 6 hrs. Discharge rate: N/A Lifetime mileage of storage batteries: 100,000 miles Vehicle max. continuous speed: N/A GVW: 45,000 lb. Seating capacity: 60 Driving range: 300 miles	Available chassis: New Flyer; Gillig; NABI; NOVA Engine make(s)/model(s): Cummins; Caterpillar; John Deere; Ford; Capstone Vehicle description: 40-ft. low-floor bus. Warranty information: Standard 1-yr. bumper-to-bumper, other warranties negotiable.

New Flyer of America

Web site: <http://www.newflyer.com>

Phone: 204-224-1251

Dealer locator Web site: N/A

Dealer locator phone: N/A

DE40 LF Transit Bus

Application(s): Transit bus
Drivetrain type: Parallel hybrid
APU fuel type: Diesel
Battery type: N/A
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: N/A
APU peak power: N/A
APU continuous power: N/A

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: N/A
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: N/A
GVW: 40,600 lb.
Seating capacity: 40
Driving range: N/A

Available chassis: N/A
Engine make(s)/model(s): N/A
Vehicle description: Low-floor transit bus with diesel/electric drivetrain.
Warranty information: One year/50,000 miles

H40LF Transit Bus

Application(s): Transit bus
Drivetrain type: Parallel hybrid
APU fuel type: cell
Battery type: N/A
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: N/A
APU peak power: N/A
APU continuous power: N/A

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: N/A
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: N/A
GVW: 40,600 lb.
Seating capacity: 40
Driving range: N/A

Available chassis: N/A
Engine make(s)/model(s): N/A
Vehicle description: Transit bus powered by hydrogen-fed fuel cell.
Warranty information: N/A

Orion Bus Industries

Web site: N/A

Phone: 905-403-1111

Dealer locator Web site: N/A

Dealer locator phone: N/A

Orion VII Hybrid

Application(s): Transit bus
Drivetrain type: Series hybrid
APU fuel type: Diesel
Battery type: Lead acid
Battery voltage: 550 volts
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: 179 kW
APU peak power: N/A
APU continuous power: 120 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: N/A
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 62 mph
GVW: 41,000 lb.
Seating capacity: 44
Driving range: 350 miles

Available chassis: N/A
Engine make(s)/model(s): Cummins ISB
Vehicle description: Low-floor transit bus with advanced hybrid diesel-electric propulsion.
Warranty information: N/A

Solectria

Web site: <http://www.solectria.com>

Phone: 978-658-2231

Dealer locator Web site: N/A

Dealer locator phone: N/A

CitiVan

Application(s): Truck
Drivetrain type: Series hybrid
APU fuel type: Diesel; natural gas
Battery type: Lead acid
Battery voltage: 336 volts
Battery capacity: 15 kWh
Battery weight: 1,400 lb.
Traction motor peak power: 120 kW
Traction motor continuous power: 60 kW
APU peak power: 30 kW
APU continuous power: 30 kW

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: 7.5 hrs.
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 50 mph
GVW: 12,000 lb.
Seating capacity: 2
Driving range: 150 miles

Available chassis: N/A
Engine make(s)/model(s): N/A
Vehicle description: Powered by Capstone microturbine.
Warranty information: N/A

CitiVan Application(s): Truck Drivetrain type: Pure electric APU fuel type: N/A Battery type: Lead acid Battery voltage: 312 volts Battery capacity: 30 kWh Battery weight: 2,500 lb. Traction motor peak power: 120 kW Traction motor continuous power: 50 kW APU peak power: N/A APU continuous power: N/A	Motor mounting configuration: N/A Regenerative braking? Yes Type of charger: N/A Charge time: 9 hrs. Discharge rate: N/A Lifetime mileage of storage batteries: N/A Vehicle max. continuous speed: 60 mph GVW: 12,000 lb. Seating capacity: 2 Driving range: 40 miles	Available chassis: N/A Engine make(s)/model(s): N/A Vehicle description: N/A Warranty information: N/A
Blue Bird Hybrid Bus Application(s): School bus Drivetrain type: Series hybrid APU fuel type: Diesel; natural gas Battery type: Lead acid Battery voltage: 336 volts Battery capacity: 34 kWh Battery weight: 3,500 lb. Traction motor peak power: 250 kW Traction motor continuous power: 115 kW APU peak power: 70 kW APU continuous power: 40 kW	Motor mounting configuration: Tandem/direct Regenerative braking? Yes Type of charger: N/A Charge time: N/A Discharge rate: N/A Lifetime mileage of storage batteries: N/A Vehicle max. continuous speed: 55 mph GVW: 33,000 lb. Seating capacity: 66 Driving range: N/A	Available chassis: N/A Engine make(s)/model(s): N/A Vehicle description: N/A Warranty information: N/A
Blue Bird Electric Bus Application(s): School bus Drivetrain type: Pure electric APU fuel type: N/A Battery type: Lead acid Battery voltage: 336 volts Battery capacity: 67 kWh Battery weight: 7,000 lb. Traction motor peak power: 250 kW Traction motor continuous power: 115 kW APU peak power: N/A APU continuous power: N/A	Motor mounting configuration: N/A Regenerative braking? Yes Type of charger: N/A Charge time: 9 hrs. Discharge rate: N/A Lifetime mileage of storage batteries: N/A Vehicle max. continuous speed: 55 mph GVW: 33,000 lb. Seating capacity: 66 Driving range: 60 miles	Available chassis: N/A Engine make(s)/model(s): N/A Vehicle description: N/A Warranty information: N/A
<div> <div> TransTeq Web site: http://www.transteq.com </div> <div> Phone: 303-382-1041 Dealer locator Web site: N/A Dealer locator phone: N/A </div> </div>		
EcoMark Application(s): Shuttle Drivetrain type: Series hybrid APU fuel type: Natural gas Battery type: Lead acid Battery voltage: 340 volts Battery capacity: 26 kWh Battery weight: 1,350 lb. Traction motor peak power: 328 kW Traction motor continuous power: 328 kW APU peak power: 67 kW APU continuous power: 52 kW	Motor mounting configuration: Front corner of bus Regenerative braking? Yes Type of charger: N/A Charge time: N/A Discharge rate: N/A Lifetime mileage of storage batteries: N/A Vehicle max. continuous speed: 30 mph GVW: 24,400 lb. Seating capacity: 98 Driving range: N/A	Available chassis: N/A Engine make(s)/model(s): Ford 2.5 liter Vehicle description: 45-ft. complete low-floor bus. Stainless tube frame with plastic body. Independent rear suspension with electric motor drive each rear wheel. Engine mounted in front of bus, opposite driver. Warranty information: N/A

Series HY-205-4
Transit Model
Application(s): Transit bus
Drivetrain type: N/A
APU fuel type: Fuel cell
Battery type: N/A
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: 205 kW
APU peak power: N/A
APU continuous power: N/A

Motor mounting configuration: N/A
Regenerative braking? Yes
Type of charger: N/A
Charge time: N/A
Discharge rate: N/A
Lifetime mileage of storage batteries: N/A
Vehicle max. continuous speed: 50 mph
GVW: N/A
Seating capacity: 40
Driving range: 180 miles

Available chassis: New Flyer H40LF
Engine make(s)/model(s): N/A
Vehicle description: PEM fuel cell stack provides power. Peak torque of 1,100 Nm @ 800 rpm.
Warranty information: N/A

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